

## ALL ITEM LIST DX9100

The following list describes all the items available in Citect trough the Johnson Control Supervisory Serial Link and Local Serial Link.

|                                                            |    |
|------------------------------------------------------------|----|
| GENERAL CONTROL MODULE .....                               | 2  |
| ANALOG INPUT MODULE .....                                  | 8  |
| ANALOG OUTPUT MODULE / AUXILIARY ANALOG OUTPUT MODULE..... | 9  |
| DIGITAL OUTPUT MODULE .....                                | 10 |
| PROGRAMMABLE MODULES .....                                 | 11 |
| TIME SCHEDULING .....                                      | 17 |
| OPTIMAL START/STOP .....                                   | 18 |
| EXTENSION MODULES.....                                     | 20 |
| REAL TIME CLOCK MODULE.....                                | 24 |
| DAYLIGHT SAVING MODULE.....                                | 24 |
| EXCEPTION DAYS MODULE .....                                | 25 |
| TIME SCHEDULE MODULE .....                                 | 27 |

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## GENERAL CONTROL MODULE

| Relative Item | Citect Data Type | Citect Address | Item Type | R/W | Johnson Tag | Description                        |
|---------------|------------------|----------------|-----------|-----|-------------|------------------------------------|
| 0             | BYTE             | SIB0           | B         | R   | UNIT        | Device Model                       |
| 1             | UINT             | SIW1           | W         | W   | SUP         | Supervisory Central Control        |
|               | DIGITAL          | SIW1.1         | W(1)      |     | DO3C        | Set Output 3 on                    |
|               | DIGITAL          | SIW1.2         | W(2)      |     | DO4C        | Set Output 4 on                    |
|               | DIGITAL          | SIW1.3         | W(3)      |     | DO5C        | Set Output 5 on                    |
|               | DIGITAL          | SIW1.4         | W(4)      |     | DO6C        | Set Output 6 on                    |
|               | DIGITAL          | SIW1.5         | W(5)      |     | DO7C        | Set Output 7 on                    |
|               | DIGITAL          | SIW1.6         | W(6)      |     | DO8C        | Set Output 8 on                    |
|               | DIGITAL          | SIW1.7         | W(7)      |     | SOFF        | Shut-Off mode request              |
|               | DIGITAL          | SIW1.8         | W(8)      |     | STUP        | Start Up mode request              |
|               | DIGITAL          | SIW1.9         | W(9)      |     | DO3E        | Enable Output 3 SUP control        |
|               | DIGITAL          | SIW1.10        | W(10)     |     | DO4E        | Enable Output 4 SUP control        |
|               | DIGITAL          | SIW1.11        | W(11)     |     | DO5E        | Enable Output 5 SUP control        |
|               | DIGITAL          | SIW1.12        | W(12)     |     | DO6E        | Enable Output 6 SUP control        |
|               | DIGITAL          | SIW1.13        | W(13)     |     | DO7E        | Enable Output 7 SUP control        |
|               | DIGITAL          | SIW1.14        | W(14)     |     | DO8E        | Enable Output 8 SUP control        |
|               | DIGITAL          | SIW1.15        | W(15)     |     | DIAL        | DIAL request Flag                  |
|               | DIGITAL          | SIW1.16        | W(16)     |     | SSA         | Supervisory System Active          |
| 2             | BYTE             | SIB2           | B         | R   | MNT         | Maintenance Control                |
|               | DIGITAL          | SIB2.1         | B(1)      |     |             | Maintenance Started                |
|               | DIGITAL          | SIB2.2         | B(2)      |     |             | Maintenance Stopped                |
| 3             | UINT             | SIW3           | W         | R   | DIAG        | Diagnostic                         |
|               | DIGITAL          | SIW3.1         | W(1)      |     | DIAG1       | EEPROM Failure                     |
|               | DIGITAL          | SIW3.2         | W(2)      |     | BATLOW      | Battery Back Up Low                |
|               | DIGITAL          | SIW3.3         | W(3)      |     | DIAG3       | EPROM Checksum Fail                |
|               | DIGITAL          | SIW3.4         | W(4)      |     | DIAG4       | Historical Trend Read Request      |
|               | DIGITAL          | SIW3.5         | W(5)      |     | SLF         | Supervisory Link Not Communicating |
|               | DIGITAL          | SIW3.6         | W(6)      |     | DIAG6       | Download Mode is active            |
|               | DIGITAL          | SIW3.7         | W(7)      |     | DIAG7       | Device Reset Indication            |
|               | DIGITAL          | SIW3.8         | W(8)      |     | DIAG8       | Password Protection Active         |
|               | DIGITAL          | SIW3.9         | W(9)      |     | DIAG9       | AI1 Unreliable                     |
|               | DIGITAL          | SIW3.10        | W(10)     |     | DIAG10      | AI2 Unreliable                     |
|               | DIGITAL          | SIW3.11        | W(11)     |     | DIAG11      | AI3 Unreliable                     |
|               | DIGITAL          | SIW3.12        | W(12)     |     | DIAG12      | AI4 Unreliable                     |
|               | DIGITAL          | SIW3.13        | W(13)     |     | DIAG13      | AI5 Unreliable                     |
|               | DIGITAL          | SIW3.14        | W(14)     |     | DIAG14      | AI6 Unreliable                     |
|               | DIGITAL          | SIW3.15        | W(15)     |     | DIAG15      | AI7 Unreliable                     |
|               | DIGITAL          | SIW3.16        | W(16)     |     | DIAG16      | AI8 Unreliable                     |
| 4             | BYTE             | SIB4           | B         | R   | DICT        | Digital Input Counters             |
|               | DIGITAL          | SIB4.1         | B(1)      |     | DIC1        | Count Transition on DI1            |
|               | DIGITAL          | SIB4.2         | B(2)      |     | DIC2        | Count Transition on DI2            |
|               | DIGITAL          | SIB4.3         | B(3)      |     | DIC3        | Count Transition on DI3            |
|               | DIGITAL          | SIB4.4         | B(4)      |     | DIC4        | Count Transition on DI4            |
|               | DIGITAL          | SIB4.5         | B(5)      |     | DIC5        | Count Transition on DI5            |
|               | DIGITAL          | SIB4.6         | B(6)      |     | DIC6        | Count Transition on DI6            |
|               | DIGITAL          | SIB4.7         | B(7)      |     | DIC7        | Count Transition on DI7            |
|               | DIGITAL          | SIB4.8         | B(8)      |     | DIC8        | Count Transition on DI8            |
| 5             | BYTE             | SIB5           | B         | R   | TOS         | TRIAC Output Status                |
|               | DIGITAL          | SIB5.1         | B(1)      |     | DO3         | Output 3 is On                     |

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| 6             | DIGITAL          | SIB5.2         | B(2)      | R   | DO4         | Output 4 is On        |
|               | DIGITAL          | SIB5.3         | B(3)      |     | DO5         | Output 5 is On        |
|               | DIGITAL          | SIB5.4         | B(4)      |     | DO6         | Output 6 is On        |
|               | DIGITAL          | SIB5.5         | B(5)      |     | DO7         | Output 7 is On        |
|               | DIGITAL          | SIB5.6         | B(6)      |     | DO8         | Output 8 is On        |
|               | DIGITAL          | SIB5.7         | B(7)      |     |             | Spare                 |
|               | DIGITAL          | SIB5.8         | B(8)      |     |             | Spare                 |
|               | BYTE             | SIB6           | B         |     | DIS         | Digital Input Status  |
|               | DIGITAL          | SIB6.1         | B(1)      |     | DI1         | Digital Input 1 is On |
|               | DIGITAL          | SIB6.2         | B(2)      |     | DI2         | Digital Input 2 is On |
|               | DIGITAL          | SIB6.3         | B(3)      |     | DI3         | Digital Input 3 is On |
|               | DIGITAL          | SIB6.4         | B(4)      |     | DI4         | Digital Input 4 is On |
|               | DIGITAL          | SIB6.5         | B(5)      |     | DI5         | Digital Input 5 is On |
|               | DIGITAL          | SIB6.6         | B(6)      |     | DI6         | Digital Input 6 is On |
|               | DIGITAL          | SIB6.7         | B(7)      |     | DI7         | Digital Input 7 is On |
|               | DIGITAL          | SIB6.8         | B(8)      |     | DI8         | Digital Input 8 is On |
| 7             | UINT             | SIW7           | W         | R   | AIS         | Analog Input Status   |
|               | DIGITAL          | SIW7.1         | W(1)      |     | AIH1        | High Alarm Condition  |
|               | DIGITAL          | SIW7.2         | W(2)      |     | AIL1        | Low Alarm Condition   |
|               | DIGITAL          | SIW7.3         | W(3)      |     | AIH2        | High Alarm Condition  |
|               | DIGITAL          | SIW7.4         | W(4)      |     | AIL2        | Low Alarm Condition   |
|               | DIGITAL          | SIW7.5         | W(5)      |     | AIH3        | High Alarm Condition  |
|               | DIGITAL          | SIW7.6         | W(6)      |     | AIL3        | Low Alarm Condition   |
|               | DIGITAL          | SIW7.7         | W(7)      |     | AIH4        | High Alarm Condition  |
|               | DIGITAL          | SIW7.8         | W(8)      |     | AIL4        | Low Alarm Condition   |
|               | DIGITAL          | SIW7.9         | W(9)      |     | AIH5        | High Alarm Condition  |
|               | DIGITAL          | SIW7.10        | W(10)     |     | AIL5        | Low Alarm Condition   |
|               | DIGITAL          | SIW7.11        | W(11)     |     | AIH6        | High Alarm Condition  |
|               | DIGITAL          | SIW7.12        | W(12)     |     | AIL6        | Low Alarm Condition   |
|               | DIGITAL          | SIW7.13        | W(13)     |     | AIH7        | High Alarm Condition  |
|               | DIGITAL          | SIW7.14        | W(14)     |     | AIL7        | Low Alarm Condition   |
|               | DIGITAL          | SIW7.15        | W(15)     |     | AIH8        | High Alarm Condition  |
|               | DIGITAL          | SIW7.16        | W(16)     |     | AIL8        | Low Alarm Condition   |
| 8             | UINT             | SIW8           | W         | R   | LRST1       | Logic Results         |
|               | DIGITAL          | SIW8.1         | W(1)      |     | LRS1        | Logic Result 1        |
|               | DIGITAL          | SIW8.2         | W(2)      |     | LRS2        | Logic Result 2        |
|               | DIGITAL          | SIW8.3         | W(3)      |     | LRS3        | Logic Result 3        |
|               | DIGITAL          | SIW8.4         | W(4)      |     | LRS4        | Logic Result 4        |
|               | DIGITAL          | SIW8.5         | W(5)      |     | LRS5        | Logic Result 5        |
|               | DIGITAL          | SIW8.6         | W(6)      |     | LRS6        | Logic Result 6        |
|               | DIGITAL          | SIW8.7         | W(7)      |     | LRS7        | Logic Result 7        |
|               | DIGITAL          | SIW8.8         | W(8)      |     | LRS8        | Logic Result 8        |
|               | DIGITAL          | SIW8.9         | W(9)      |     | LRS9        | Logic Result 9        |
|               | DIGITAL          | SIW8.10        | W(10)     |     | LRS10       | Logic Result 10       |
|               | DIGITAL          | SIW8.11        | W(11)     |     | LRS11       | Logic Result 11       |
|               | DIGITAL          | SIW8.12        | W(12)     |     | LRS12       | Logic Result 12       |
|               | DIGITAL          | SIW8.13        | W(13)     |     | LRS13       | Logic Result 13       |
|               | DIGITAL          | SIW8.14        | W(14)     |     | LRS14       | Logic Result 14       |
|               | DIGITAL          | SIW8.15        | W(15)     |     | LRS15       | Logic Result 15       |
|               | DIGITAL          | SIW8.16        | W(16)     |     | LRS16       | Logic Result 16       |
| 9             | UINT             | SIW9           | W         | R   | LRST2       | Logic Results         |
|               | DIGITAL          | SIW9.1         | W(1)      |     | LRS17       | Logic Result 17       |
|               | DIGITAL          | SIW9.2         | W(2)      |     | LRS18       | Logic Result 18       |
|               | DIGITAL          | SIW9.3         | W(3)      |     | LRS19       | Logic Result 19       |

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|               | DIGITAL          | SIW9.4         | W(4)      |     | LRS20       | Logic Result 20   |
|               | DIGITAL          | SIW9.5         | W(5)      |     | LRS21       | Logic Result 21   |
|               | DIGITAL          | SIW9.6         | W(6)      |     | LRS22       | Logic Result 22   |
|               | DIGITAL          | SIW9.7         | W(7)      |     | LRS23       | Logic Result 23   |
|               | DIGITAL          | SIW9.8         | W(8)      |     | LRS24       | Logic Result 24   |
|               | DIGITAL          | SIW9.9         | W(9)      |     | LRS25       | Logic Result 25   |
|               | DIGITAL          | SIW9.10        | W(10)     |     | LRS26       | Logic Result 26   |
|               | DIGITAL          | SIW9.11        | W(11)     |     | LRS27       | Logic Result 27   |
|               | DIGITAL          | SIW9.12        | W(12)     |     | LRS28       | Logic Result 28   |
|               | DIGITAL          | SIW9.13        | W(13)     |     | LRS29       | Logic Result 29   |
|               | DIGITAL          | SIW9.14        | W(14)     |     | LRS30       | Logic Result 30   |
|               | DIGITAL          | SIW9.15        | W(15)     |     | LRS31       | Logic Result 31   |
|               | DIGITAL          | SIW9.16        | W(16)     |     | LRS32       | Logic Result 32   |
| 10            | UINT             | SIWA           | W         | W   | LCOS1       | Logic Constants   |
|               | DIGITAL          | SIWA.1         | W(1)      |     | DCO1        | Logic Constant 1  |
|               | DIGITAL          | SIWA.2         | W(2)      |     | DCO2        | Logic Constant 2  |
|               | DIGITAL          | SIWA.3         | W(3)      |     | DCO3        | Logic Constant 3  |
|               | DIGITAL          | SIWA.4         | W(4)      |     | DCO4        | Logic Constant 4  |
|               | DIGITAL          | SIWA.5         | W(5)      |     | DCO5        | Logic Constant 5  |
|               | DIGITAL          | SIWA.6         | W(6)      |     | DCO6        | Logic Constant 6  |
|               | DIGITAL          | SIWA.7         | W(7)      |     | DCO7        | Logic Constant 7  |
|               | DIGITAL          | SIWA.8         | W(8)      |     | DCO8        | Logic Constant 8  |
|               | DIGITAL          | SIWA.9         | W(9)      |     | DCO9        | Logic Constant 9  |
|               | DIGITAL          | SIWA.10        | W(10)     |     | DCO10       | Logic Constant 10 |
|               | DIGITAL          | SIWA.11        | W(11)     |     | DCO11       | Logic Constant 11 |
|               | DIGITAL          | SIWA.12        | W(12)     |     | DCO12       | Logic Constant 12 |
|               | DIGITAL          | SIWA.13        | W(13)     |     | DCO13       | Logic Constant 13 |
|               | DIGITAL          | SIWA.14        | W(14)     |     | DCO14       | Logic Constant 14 |
|               | DIGITAL          | SIWA.15        | W(15)     |     | DCO15       | Logic Constant 15 |
|               | DIGITAL          | SIWA.16        | W(16)     |     | DCO16       | Logic Constant 16 |
| 11            | UINT             | SIWB           | W         | W   | LCOS2       | Logic Constants   |
|               | DIGITAL          | SIWB.1         | W(1)      |     | DCO17       | Logic Constant 17 |
|               | DIGITAL          | SIWB.2         | W(2)      |     | DCO18       | Logic Constant 18 |
|               | DIGITAL          | SIWB.3         | W(3)      |     | DCO19       | Logic Constant 19 |
|               | DIGITAL          | SIWB.4         | W(4)      |     | DCO20       | Logic Constant 20 |
|               | DIGITAL          | SIWB.5         | W(5)      |     | DCO21       | Logic Constant 21 |
|               | DIGITAL          | SIWB.6         | W(6)      |     | DCO22       | Logic Constant 22 |
|               | DIGITAL          | SIWB.7         | W(7)      |     | DCO23       | Logic Constant 23 |
|               | DIGITAL          | SIWB.8         | W(8)      |     | DCO24       | Logic Constant 24 |
|               | DIGITAL          | SIWB.9         | W(9)      |     | DCO25       | Logic Constant 25 |
|               | DIGITAL          | SIWB.10        | W(10)     |     | DCO26       | Logic Constant 26 |
|               | DIGITAL          | SIWB.11        | W(11)     |     | DCO27       | Logic Constant 27 |
|               | DIGITAL          | SIWB.12        | W(12)     |     | DCO28       | Logic Constant 28 |
|               | DIGITAL          | SIWB.13        | W(13)     |     | DCO29       | Logic Constant 29 |
|               | DIGITAL          | SIWB.14        | W(14)     |     | DCO30       | Logic Constant 30 |
|               | DIGITAL          | SIWB.15        | W(15)     |     | DCO31       | Logic Constant 31 |
|               | DIGITAL          | SIWB.16        | W(16)     |     | DCO32       | Logic Constant 32 |
| 12            | UINT             | SIWC           | W         | R   | VER         | Firmware Version  |
| 13            | LONG             | SIWD           | L         | W   | CNTR1       | DI1 Pulse Count   |
| 14            | LONG             | SIWE           | L         | W   | CNTR2       | DI2 Pulse Count   |
| 15            | LONG             | SIWF           | L         | W   | CNTR3       | DI3 Pulse Count   |
| 16            | LONG             | SIW10          | L         | W   | CNTR4       | DI4 Pulse Count   |
| 17            | LONG             | SIW11          | L         | W   | CNTR5       | DI5 Pulse Count   |
| 18            | LONG             | SIW12          | L         | W   | CNTR6       | DI6 Pulse Count   |

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|---------------|------------------|----------------|-----------|-----|-------------|----------------------------------------------------|
| 19            | LONG             | SIW13          | L         | W   | CNTR7       | DI7 Pulse Count                                    |
| 20            | LONG             | SIW14          | L         | W   | CNTR8       | DI8 Pulse Count                                    |
| 21            | UINT             | SIW15          | W         | W   |             | Reserved                                           |
| 22            | BYTE             | SIB16          | B         | W   | PC1         | Prescaler DI1 Counter                              |
| 23            | BYTE             | SIB17          | B         | W   | PC2         | Prescaler DI2 Counter                              |
| 24            | BYTE             | SIB18          | B         | W   | PC3         | Prescaler DI3 Counter                              |
| 25            | BYTE             | SIB19          | B         | W   | PC4         | Prescaler DI4 Counter                              |
| 26            | BYTE             | SIB1A          | B         | W   | PC5         | Prescaler DI5 Counter                              |
| 27            | BYTE             | SIB1B          | B         | W   | PC6         | Prescaler DI6 Counter                              |
| 28            | BYTE             | SIB1C          | B         | W   | PC7         | Prescaler DI7 Counter                              |
| 29            | BYTE             | SIB1D          | B         | W   | PC8         | Prescaler DI8 Counter                              |
| 30            | BYTE             | SIB1E          | B         | W   |             | Reserved                                           |
| 31            | UINT             | SIW1F          | C         | W   | ALD@        | Alarm disable condition source                     |
| 32            | BYTE             | SIB20          | B         |     | DXS1        | DX9100 type settings                               |
|               | DIGITAL          | SIB20.1        | B(1)      |     |             | Spare                                              |
|               | DIGITAL          | SIB20.2        | B(2)      |     |             | Spare                                              |
|               | DIGITAL          | SIB20.3        | B(3)      |     |             | Disable the possibility to set the Real Time Clock |
|               | DIGITAL          | SIB20.4        | B(4)      |     |             | Counters size: 0=16bits, 1=32 bits                 |
|               | DIGITAL          | SIB20.5        | B(5)      |     |             | Extension Bus Answer Waiting Time                  |
|               |                  |                | 0         |     |             | XT9100 Default Method                              |
|               |                  |                | 1         |     |             | XTM905 Default Method                              |
|               |                  |                | 2         |     |             | 150 msec                                           |
|               |                  |                | 3         |     |             | 200 msec                                           |
|               | DIGITAL          | SIB20.6        | B(6)      |     |             | 0=50 Hz, 1=60 Hz Power Line                        |
|               | DIGITAL          | SIB20.7        | B(7)      |     |             | Initialize on Power Up                             |
|               | DIGITAL          | SIB20.8        | B(8)      |     |             | Standard Algorithm Type                            |
| 33            | UINT             | SIW21          | W         | W   | ALG         |                                                    |
| 34            | REAL             | SIN22          | N         | W   | ACO1        | Analog Constant 1                                  |
| 35            | REAL             | SIN23          | N         | W   | ACO2        | Analog Constant 2                                  |
| 36            | REAL             | SIN24          | N         | W   | ACO3        | Analog Constant 3                                  |
| 37            | REAL             | SIN25          | N         | W   | ACO4        | Analog Constant 4                                  |
| 38            | REAL             | SIN26          | N         | W   | ACO5        | Analog Constant 5                                  |
| 39            | REAL             | SIN27          | N         | W   | ACO6        | Analog Constant 6                                  |
| 40            | REAL             | SIN28          | N         | W   | ACO7        | Analog Constant 7                                  |
| 41            | REAL             | SIN29          | N         | W   | ACO8        | Analog Constant 8                                  |
| 42            | BYTE             | SIB2A          | B         | W   | PLCNT       | PLC Control & Status                               |
|               | DIGITAL          | SIB2A.1        | B(1)      | W   | PLHLD       | Set Hold Mode                                      |
|               | DIGITAL          | SIB2A.2        | B(2)      | W   | PLSS        | Set Single Step Mode                               |
|               | DIGITAL          | SIB2A.3        | B(3)      | W   | PLEXS       | Execute one PLC step                               |
|               | DIGITAL          | SIB2A.4        | B(4)      |     |             | Spare                                              |
|               | DIGITAL          | SIB2A.5        | B(5)      |     |             | Spare                                              |
|               | DIGITAL          | SIB2A.6        | B(6)      |     |             | Spare                                              |
|               | DIGITAL          | SIB2A.7        | B(7)      | R   | PLERR       | Error Status                                       |
|               | DIGITAL          | SIB2A.8        | B(8)      | R   | PLPR        | PLC partial Result                                 |
| 43            | UINT             | SIW2B          | W         | R   | PLCPC       | PLC Program Counter                                |
| 44            | UINT             | SIW2C          | W         | R   | LRST3       | Logic Results                                      |
|               | DIGITAL          | SIW2C.1        | W(1)      |     | LRS33       | Logic Result 33                                    |
|               | DIGITAL          | SIW2C.2        | W(2)      |     | LRS34       | Logic Result 34                                    |
|               | DIGITAL          | SIW2C.3        | W(3)      |     | LRS35       | Logic Result 35                                    |
|               | DIGITAL          | SIW2C.4        | W(4)      |     | LRS36       | Logic Result 36                                    |
|               | DIGITAL          | SIW2C.5        | W(5)      |     | LRS37       | Logic Result 37                                    |

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|               | DIGITAL          | SIW2C.6        | W(6)                    |     | LRS38       | Logic Result 38                      |
|               | DIGITAL          | SIW2C.7        | W(7)                    |     | LRS39       | Logic Result 39                      |
|               | DIGITAL          | SIW2C.8        | W(8)                    |     | LRS40       | Logic Result 40                      |
|               | DIGITAL          | SIW2C.9        | W(9)                    |     | LRS41       | Logic Result 41                      |
|               | DIGITAL          | SIW2C.10       | W(10)                   |     | LRS42       | Logic Result 42                      |
|               | DIGITAL          | SIW2C.11       | W(11)                   |     | LRS43       | Logic Result 43                      |
|               | DIGITAL          | SIW2C.12       | W(12)                   |     | LRS44       | Logic Result 44                      |
|               | DIGITAL          | SIW2C.13       | W(13)                   |     | LRS45       | Logic Result 45                      |
|               | DIGITAL          | SIW2C.14       | W(14)                   |     | LRS46       | Logic Result 46                      |
|               | DIGITAL          | SIW2C.15       | W(15)                   |     | LRS47       | Logic Result 47                      |
|               | DIGITAL          | SIW2C.16       | W(16)                   |     | LRS48       | Logic Result 48                      |
| 45            | UINT             | SIW2D          | W                       | R   | LRST4       | Logic Results                        |
|               | DIGITAL          | SIW2D.1        | W(1)                    |     | LRS49       | Logic Result 49                      |
|               | DIGITAL          | SIW2D.2        | W(2)                    |     | LRS50       | Logic Result 50                      |
|               | DIGITAL          | SIW2D.3        | W(3)                    |     | LRS51       | Logic Result 51                      |
|               | DIGITAL          | SIW2D.4        | W(4)                    |     | LRS52       | Logic Result 52                      |
|               | DIGITAL          | SIW2D.5        | W(5)                    |     | LRS53       | Logic Result 53                      |
|               | DIGITAL          | SIW2D.6        | W(6)                    |     | LRS54       | Logic Result 54                      |
|               | DIGITAL          | SIW2D.7        | W(7)                    |     | LRS55       | Logic Result 55                      |
|               | DIGITAL          | SIW2D.8        | W(8)                    |     | LRS56       | Logic Result 56                      |
|               | DIGITAL          | SIW2D.9        | W(9)                    |     | LRS57       | Logic Result 57                      |
|               | DIGITAL          | SIW2D.10       | W(10)                   |     | LRS58       | Logic Result 58                      |
|               | DIGITAL          | SIW2D.11       | W(11)                   |     | LRS59       | Logic Result 59                      |
|               | DIGITAL          | SIW2D.12       | W(12)                   |     | LRS60       | Logic Result 60                      |
|               | DIGITAL          | SIW2D.13       | W(13)                   |     | LRS61       | Logic Result 61                      |
|               | DIGITAL          | SIW2D.14       | W(14)                   |     | LRS62       | Logic Result 62                      |
|               | DIGITAL          | SIW2D.15       | W(15)                   |     | LRS63       | Logic Result 63                      |
|               | DIGITAL          | SIW2D.16       | W(16)                   |     | LRS64       | Logic Result 64                      |
| 46            | UINT             | SIW2E          | W<br>W(1)<br>ø<br>W(16) | W   | DXS2        | DX9100 settings<br>Spare             |
| 47            | UINT             | SIW2F          | W                       | R   | TRSTA       | Historical Trends Status             |
|               | DIGITAL          | SIW2F.1        | W(1)                    |     |             | Trend Read Request 1                 |
|               | DIGITAL          | SIW2F.2        | W(2)                    |     |             | Trend Read Request 2                 |
|               | DIGITAL          | SIW2F.3        | W(3)                    |     |             | Trend Read Request 3                 |
|               | DIGITAL          | SIW2F.4        | W(4)                    |     |             | Trend Read Request 4                 |
|               | DIGITAL          | SIW2F.5        | W(5)                    |     |             | Trend Read Request 5                 |
|               | DIGITAL          | SIW2F.6        | W(6)                    |     |             | Trend Read Request 6                 |
|               | DIGITAL          | SIW2F.7        | W(7)                    |     |             | Trend Read Request 7                 |
|               | DIGITAL          | SIW2F.8        | W(8)                    |     |             | Trend Read Request 8                 |
|               | DIGITAL          | SIW2F.9        | W(9)                    |     |             | Trend Read Request 9                 |
|               | DIGITAL          | SIW2F.10       | W(10)                   |     |             | Trend Read Request 10                |
|               | DIGITAL          | SIW2F.11       | W(11)                   |     |             | Trend Read Request 11                |
|               | DIGITAL          | SIW2F.12       | W(12)                   |     |             | Trend Read Request 12                |
| 48            | UINT             | SIW30          | W                       | W   | PHMAP       | Historical Trends Used by Supervisor |
|               | DIGITAL          | SIW30.1        | W(1)                    |     |             | Trend Used 1                         |
|               | DIGITAL          | SIW30.2        | W(2)                    |     |             | Trend Used 2                         |
|               | DIGITAL          | SIW30.3        | W(3)                    |     |             | Trend Used 3                         |
|               | DIGITAL          | SIW30.4        | W(4)                    |     |             | Trend Used 4                         |
|               | DIGITAL          | SIW30.5        | W(5)                    |     |             | Trend Used 5                         |
|               | DIGITAL          | SIW30.6        | W(6)                    |     |             | Trend Used 6                         |
|               | DIGITAL          | SIW30.7        | W(7)                    |     |             | Trend Used 7                         |
|               | DIGITAL          | SIW30.8        | W(8)                    |     |             | Trend Used 8                         |

| Relative<br>Item | Citect<br>Data Type | Citect<br>Address | Item<br>Type | R/W | Johnson<br>Tag | Description   |
|------------------|---------------------|-------------------|--------------|-----|----------------|---------------|
|                  | DIGITAL             | SIW30.9           | W(9)         |     |                | Trend Used 9  |
|                  | DIGITAL             | SIW30.10          | W(10)        |     |                | Trend Used 10 |
|                  | DIGITAL             | SIW30.11          | W(11)        |     |                | Trend Used 11 |
|                  | DIGITAL             | SIW30.12          | W(12)        |     |                | Trend Used 12 |

## ANALOG INPUT MODULE

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>AI1 | Citect<br>Address<br>AI2 | Citect<br>Address<br>AI3 | Citect<br>Address<br>AI4 | Citect<br>Address<br>AI5 | Citect<br>Address<br>AI6 | Citect<br>Address<br>AI7 | Citect<br>Address<br>AI8 | Item<br>Type                  | R/W | Johnson<br>Tag              | Description                         |                      |
|----|------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------|-----|-----------------------------|-------------------------------------|----------------------|
| 0  | UINT                   | SIW                         | 4C0                      | 4D0                      | 4E0                      | 4F0                      | 500                      | 510                      | 520                      | 530                      | W                             | W   | AIT                         | Analog Input Type                   |                      |
|    | DIGITAL                | SIW                         | 4C0.1                    | 4D0.1                    | 4E0.1                    | 4F0.1                    | 500.1                    | 510.1                    | 520.1                    | 530.1                    | W(1)                          |     |                             | Unit Of Measure                     |                      |
|    |                        |                             |                          |                          |                          |                          |                          |                          |                          |                          | 0000 No Units                 |     |                             |                                     |                      |
|    |                        |                             |                          |                          |                          |                          |                          |                          |                          |                          | 0001 Celsius                  |     |                             |                                     |                      |
|    |                        |                             |                          |                          |                          |                          |                          |                          |                          |                          | 0010 Fahrenheit               |     |                             |                                     |                      |
|    | DIGITAL                | SIW                         | 4C0.4                    | 4D0.4                    | 4E0.4                    | 4F0.4                    | 500.4                    | 510.4                    | 520.4                    | 530.4                    | W(4)                          |     |                             | 0011 Per Cent                       |                      |
|    | DIGITAL                | SIW                         | 4C0.5                    | 4D0.5                    | 4E0.5                    | 4F0.5                    | 500.5                    | 510.5                    | 520.5                    | 530.5                    | W(5)                          |     |                             | Enable Square Root of Input         |                      |
|    | DIGITAL                | SIW                         | 4C0.6                    | 4D0.6                    | 4E0.6                    | 4F0.6                    | 500.6                    | 510.6                    | 520.6                    | 530.6                    | W(6)                          |     |                             | Alarm on Unfiltered value           |                      |
|    | DIGITAL                | SIW                         | 4C0.7                    | 4D0.7                    | 4E0.7                    | 4F0.7                    | 500.7                    | 510.7                    | 520.7                    | 530.7                    | W(7)                          |     |                             | 0=0..10, 1=0..2 Volts               |                      |
|    | DIGITAL                | SIW                         | 4C0.8                    | 4D0.8                    | 4E0.8                    | 4F0.8                    | 500.8                    | 510.8                    | 520.8                    | 530.8                    | W(8)                          |     |                             | 20% Suppression                     |                      |
|    | DIGITAL                | SIW                         | 4C0.9                    | 4D0.9                    | 4E0.9                    | 4F0.9                    | 500.9                    | 510.9                    | 520.9                    | 530.9                    | W(9)                          |     |                             | Linearization & Sensor Type         |                      |
|    |                        |                             |                          |                          |                          |                          |                          |                          |                          |                          | 000 Linear                    |     |                             |                                     |                      |
|    |                        |                             |                          |                          |                          |                          |                          |                          |                          |                          | 001 Nickel 1000               |     |                             |                                     |                      |
|    |                        |                             |                          |                          |                          |                          |                          |                          |                          |                          | 010 Nickel 1000 Etended Range |     |                             |                                     |                      |
|    |                        |                             |                          |                          |                          |                          |                          |                          |                          |                          | 011 A99 Sensor                |     |                             |                                     |                      |
|    |                        |                             |                          |                          |                          |                          |                          |                          |                          |                          | 100 PT1000 Sensor             |     |                             |                                     |                      |
|    |                        |                             |                          |                          |                          |                          |                          |                          |                          |                          | 101 Nickel 1000 L&G           |     |                             |                                     |                      |
|    | DIGITAL                | SIW                         | 4C0.11                   | 4D0.11                   | 4E0.11                   | 4F0.11                   | 500.11                   | 510.11                   | 520.11                   | 530.11                   | W(11)                         |     | 110 Nickel 1000 – DIN 43760 |                                     |                      |
| 1  | REAL                   | SIN                         | 4C1                      | 4D1                      | 4E1                      | 4F1                      | 501                      | 511                      | 521                      | 531                      | N                             | W   | HR                          | High Range Input                    |                      |
| 2  | REAL                   | SIN                         | 4C2                      | 4D2                      | 4E2                      | 4F2                      | 502                      | 512                      | 522                      | 532                      | N                             | W   | LR                          | Low Range Input                     |                      |
| 3  | REAL                   | SIN                         | 4C3                      | 4D3                      | 4E3                      | 4F3                      | 503                      | 513                      | 523                      | 533                      | N                             | W   | HIA                         | High Alarm Limit                    |                      |
| 4  | REAL                   | SIN                         | 4C4                      | 4D4                      | 4E4                      | 4F4                      | 504                      | 514                      | 524                      | 534                      | N                             | W   | LOA                         | Low Alarm Limit                     |                      |
| 5  | REAL                   | SIN                         | 4C5                      | 4D5                      | 4E5                      | 4F5                      | 505                      | 515                      | 525                      | 535                      | N                             | W   | FTC                         | Filter Constant                     |                      |
| 6  | REAL                   | SIN                         | 4C6                      | 4D6                      | 4E6                      | 4F6                      | 506                      | 516                      | 526                      | 536                      | N                             | W   | ADF                         | Differential on Alarm Limit [units] |                      |
| 7  | REAL                   | SIN                         | 4C7                      | 4D7                      | 4E7                      | 4F7                      | 507                      | 517                      | 527                      | 537                      | N                             | R   | AI                          | Analog Input Value                  |                      |
| 8  | REAL                   | SIN                         | 4C8                      | 4D8                      | 4E8                      | 4F8                      | 508                      | 518                      | 528                      | 538                      | N                             | R   | AI%                         | Analog Input %                      |                      |
| 9  | UINT                   | SIW                         | 4C9                      | 4D9                      | 4E9                      | 4F9                      | 509                      | 519                      | 529                      | 539                      | W                             | R   | ADC                         | Analog Input in Counts              |                      |
| 10 | BYTE                   | SIB                         | 4CA                      | 4DA                      | 4EA                      | 4FA                      | 50A                      | 51A                      | 52A                      | 53A                      | B                             | R   | AIST                        | Analog Input Status                 |                      |
|    | DIGITAL                | SIB                         | 4CA.1                    | 4DA.1                    | 4EA.1                    | 4FA.1                    | 50A.1                    | 51A.1                    | 52A.1                    | 53A.1                    | B(1)                          |     |                             | AIH                                 | High Alarm Condition |
|    | DIGITAL                | SIB                         | 4CA.2                    | 4DA.2                    | 4EA.2                    | 4FA.2                    | 50A.2                    | 51A.2                    | 52A.2                    | 53A.2                    | B(2)                          |     |                             | AIL                                 | Low Alarm Condition  |
|    | DIGITAL                | SIB                         | 4CA.3                    | 4DA.3                    | 4EA.3                    | 4FA.3                    | 50A.3                    | 51A.3                    | 52A.3                    | 53A.3                    | B(3)                          |     |                             | OVR                                 | Overrange Condition  |
|    | DIGITAL                | SIB                         | 4CA.4                    | 4DA.4                    | 4EA.4                    | 4FA.4                    | 50A.4                    | 51A.4                    | 52A.4                    | 53A.4                    | B(4)                          |     |                             | UNR                                 | Underrange Condition |



## ANALOG OUTPUT MODULE / AUXILIARY ANALOG OUTPUT MODULE

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>AO1 | Citect<br>Address<br>AO2 | Citect<br>Address<br>AO9 <sup>1</sup> | Citect<br>Address<br>AO10 <sup>1</sup> | Citect<br>Address<br>AAO11 <sup>1</sup> | Citect<br>Address<br>AAO12 <sup>1</sup> | Citect<br>Address<br>AAO13 <sup>1</sup> | Citect<br>Address<br>AAO14 <sup>1</sup> | Item<br>Type                                                                     | R/W | Johnson<br>Tag | Description                                                                                                                                                                                                                                                                      |
|----|------------------------|-----------------------------|--------------------------|--------------------------|---------------------------------------|----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------|-----|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0  | BYTE<br>DIGITAL        | SIB<br>SIB                  | 540<br>540.1             | 550<br>550.1             | 900<br>900.1                          | 910<br>910.1                           | 920<br>920.1                            | 930<br>930.1                            | 940<br>940.1                            | 950<br>950.1                            | B<br>B(1)<br>ø<br>ø<br>ø<br>B(2)<br>B(3)<br>B(4)<br>B(5)<br>B(6)<br>B(7)<br>B(8) | W   | AOT            | Analog Output Type<br>Output Types<br>00 Output Disabled<br>01 Output 0 to 10 V<br>10 Output 0 to 20 mA <sup>(2)</sup><br>11 Output 4 to 20 mA <sup>(2)</sup><br>Spare<br>Spare<br>Spare<br>Spare<br>Spare<br>Mode set if PUPI = 1: 0 = hold, 1 = auto<br>Force Mode at Power Up |
| 1  | UINT                   | SIW                         | 541                      | 551                      | 901                                   | 911                                    | 921                                     | 931                                     | 941                                     | 951                                     | C                                                                                | W   | AO@            | Source of Analog Output Module                                                                                                                                                                                                                                                   |
| 2  | UINT                   | SIW                         | 542                      | 552                      | 902                                   | 912                                    | 922                                     | 932                                     | 942                                     | 952                                     | C                                                                                | W   | AOF@           | Output Forcing Logic Connection                                                                                                                                                                                                                                                  |
| 3  | REAL                   | SIN                         | 543                      | 553                      | 903                                   | 913                                    | 923                                     | 933                                     | 943                                     | 953                                     | N                                                                                | W   | HRO            | Output High Range                                                                                                                                                                                                                                                                |
| 4  | REAL                   | SIN                         | 544                      | 554                      | 904                                   | 914                                    | 924                                     | 934                                     | 944                                     | 954                                     | N                                                                                | W   | LRO            | Output Low Range                                                                                                                                                                                                                                                                 |
| 5  | REAL                   | SIN                         | 545                      | 555                      | 905                                   | 915                                    | 925                                     | 935                                     | 945                                     | 955                                     | N                                                                                | W   | OFL            | Output % Value in Forcing Mode                                                                                                                                                                                                                                                   |
| 6  | REAL                   | SIN                         | 546                      | 556                      | 906                                   | 916                                    | 926                                     | 936                                     | 946                                     | 956                                     | N                                                                                | W   | OUT            | Output Module Output Value %                                                                                                                                                                                                                                                     |
| 7  | BYTE                   | SIB                         | 547                      | 557                      | 907                                   | 917                                    | 927                                     | 937                                     | 947                                     | 957                                     | B                                                                                | W   | AOC            | Analog Output Control & Status                                                                                                                                                                                                                                                   |
|    | DIGITAL                | SIB                         | 547.1                    | 557.1                    | 907.1                                 | 917.1                                  | 927.1                                   | 937.1                                   | 947.1                                   | 957.1                                   | B(1)                                                                             | W   | OUH            | Output in Hold Mode                                                                                                                                                                                                                                                              |
|    | DIGITAL                | SIB                         | 547.2                    | 557.2                    | 907.2                                 | 917.2                                  | 927.2                                   | 937.2                                   | 947.2                                   | 957.2                                   | B(2)                                                                             | R   | AOH            | Output at High Limit ..100%                                                                                                                                                                                                                                                      |
|    | DIGITAL                | SIB                         | 547.3                    | 557.3                    | 907.3                                 | 917.3                                  | 927.3                                   | 937.3                                   | 947.3                                   | 957.3                                   | B(3)                                                                             | R   | AOL            | Output at Low Limit ..0%                                                                                                                                                                                                                                                         |
|    | DIGITAL                | SIB                         | 547.4                    | 557.4                    | 907.4                                 | 917.4                                  | 927.4                                   | 937.4                                   | 947.4                                   | 957.4                                   | B(4)                                                                             | R   | AOF            | Output is Forced                                                                                                                                                                                                                                                                 |
|    | DIGITAL                | SIB                         | 547.5                    | 557.5                    | 907.5                                 | 917.5                                  | 927.5                                   | 937.5                                   | 947.5                                   | 957.5                                   | B(5)                                                                             |     |                | Spare                                                                                                                                                                                                                                                                            |
|    | DIGITAL                | SIB                         | 547.6                    | 557.6                    | 907.6                                 | 917.6                                  | 927.6                                   | 937.6                                   | 947.6                                   | 957.6                                   | B(6)                                                                             | R   | OUL            | Output DDC Lock                                                                                                                                                                                                                                                                  |
| 8  | REAL                   | SIN                         | 548                      | 558                      | 908                                   | 918                                    | 928                                     | 938                                     | 948                                     | 958                                     | N                                                                                | W   | HLO            | Output High Limit                                                                                                                                                                                                                                                                |
| 9  | REAL                   | SIN                         | 549                      | 559                      | 909                                   | 919                                    | 929                                     | 939                                     | 949                                     | 959                                     | N                                                                                | W   | LLO            | Output Low Limit                                                                                                                                                                                                                                                                 |
| 10 | UINT                   | SIW                         | 54A                      | 55A                      | 90A                                   | 91A                                    | 92A                                     | 93A                                     | 94A                                     | 95A                                     | C                                                                                | W   | INC@           | DDC Increase Logic Connection                                                                                                                                                                                                                                                    |
| 11 | UINT                   | SIW                         | 54B                      | 55B                      | 90B                                   | 91B                                    | 92B                                     | 93B                                     | 94B                                     | 95B                                     | C                                                                                | W   | DEC@           | DDC Decrease Logic Connection                                                                                                                                                                                                                                                    |
| 12 | UINT                   | SIW                         | 54C                      | 55C                      | 90C                                   | 91C                                    | 92C                                     | 93C                                     | 94C                                     | 95C                                     | C                                                                                | W   | ENL@           | Limit Function Enable Logic Connection                                                                                                                                                                                                                                           |

<sup>1</sup> Not available for DX9100 Rev. 1.x    <sup>2</sup> Not available for Auxiliary Analog Output

## DIGITAL OUTPUT MODULE

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>DO3 | Citect<br>Address<br>DO4 | Citect<br>Address<br>DO5 | Citect<br>Address<br>DO6 | Citect<br>Address<br>DO7 | Citect<br>Address<br>DO8 | Item<br>Type | R/W | Johnson<br>Tag | Description                                                                                                                                                                                                                                                |
|----|------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|-----|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0  | BYTE<br>DIGITAL        | SIB<br>SIB                  | 560<br>560.1             | 570<br>570.1             | 580<br>580.1             | 590<br>590.1             | 5A0<br>5A0.1             | 5B0<br>5B0.1             | B<br>B(1)    | W   | DOT<br>TYP     | Digital Output Options<br>Digital Output Mode<br>000 Output Disabled or paired<br>001 ON/OFF – Logic Source<br>010 ON/OFF – Numeric Source<br>011 DAT Output Type<br>100 PAT without feedback<br>101 PAT with feedback<br>110 START/STOP<br>111 PULSE TYPE |
|    | DIGITAL                | SIB                         | 560.3                    | 570.3                    | 580.3                    | 590.3                    | 5A0.3                    | 5B0.3                    | B(3)         |     |                | Spare                                                                                                                                                                                                                                                      |
|    | DIGITAL                | SIB                         | 560.4                    | 570.4                    | 580.4                    | 590.4                    | 5A0.4                    | 5B0.4                    | B(4)         |     |                | Spare                                                                                                                                                                                                                                                      |
|    | DIGITAL                | SIB                         | 560.5                    | 570.5                    | 580.5                    | 590.5                    | 5A0.5                    | 5B0.5                    | B(5)         |     |                | Spare                                                                                                                                                                                                                                                      |
|    | DIGITAL                | SIB                         | 560.6                    | 570.6                    | 580.6                    | 590.6                    | 5A0.6                    | 5B0.6                    | B(6)         |     |                | Spare                                                                                                                                                                                                                                                      |
|    | DIGITAL                | SIB                         | 560.7                    | 570.7                    | 580.7                    | 590.7                    | 5A0.7                    | 5B0.7                    | B(7)         | W   | PUPM           | Mode set if PUPI = 1: 0 = hold, 1 = auto                                                                                                                                                                                                                   |
|    | DIGITAL                | SIB                         | 560.8                    | 570.8                    | 580.8                    | 590.8                    | 5A0.8                    | 5B0.8                    | B(8)         | W   | PUPI           | Force Mode at Power Up                                                                                                                                                                                                                                     |
| 1  | UINT                   | SIW                         | 561                      | 571                      | 581                      | 591                      | 5A1                      | 5B1                      | C            | W   | DO@            | Source of Digital Output Module                                                                                                                                                                                                                            |
| 2  | UINT                   | SIW                         | 562                      | 572                      | 582                      | 592                      | 5A2                      | 5B2                      | C            | W   | FB@            | Source of Feedback signal                                                                                                                                                                                                                                  |
| 3  | UINT                   | SIW                         | 563                      | 573                      | 583                      | 593                      | 5A3                      | 5B3                      | C            | W   | DOF@           | Output Forcing Logic Connection                                                                                                                                                                                                                            |
| 4  | REAL                   | SIN                         | 564                      | 574                      | 584                      | 594                      | 5A4                      | 5B4                      | N            | W   | HRO            | Output High Range                                                                                                                                                                                                                                          |
| 5  | REAL                   | SIN                         | 565                      | 575                      | 585                      | 595                      | 5A5                      | 5B5                      | N            | W   | LRO            | Output Low Range                                                                                                                                                                                                                                           |
| 6  | REAL                   | SIN                         | 566                      | 576                      | 586                      | 596                      | 5A6                      | 5B6                      | N            | W   | FST            | PAT Output Full Stroke Time or DAT                                                                                                                                                                                                                         |
| 7  | REAL                   | SIN                         | 567                      | 577                      | 587                      | 597                      | 5A7                      | 5B7                      | N            | W   | DB             | PAT or DAT Dead Band                                                                                                                                                                                                                                       |
| 8  | REAL                   | SIN                         | 568                      | 578                      | 588                      | 598                      | 5A8                      | 5B8                      | N            | W   | HLO            | Output High Limit                                                                                                                                                                                                                                          |
| 9  | REAL                   | SIN                         | 569                      | 579                      | 589                      | 599                      | 5A9                      | 5B9                      | N            | W   | LLO            | Output Low Limit                                                                                                                                                                                                                                           |
| 10 | REAL                   | SIN                         | 56A                      | 57A                      | 58A                      | 59A                      | 5AA                      | 5BA                      | N            | W   | OFL            | Output % Value in Forcing Mode                                                                                                                                                                                                                             |
| 11 | REAL                   | SIN                         | 56B                      | 57B                      | 58B                      | 59B                      | 5AB                      | 5BB                      | N            | W   | OUT            | Output Module Output Value %                                                                                                                                                                                                                               |
| 12 | BYTE                   | SIB                         | 56C                      | 57C                      | 58C                      | 59C                      | 5AC                      | 5BC                      | B            | W   | DOC            | Logic Output Control & Status                                                                                                                                                                                                                              |
|    | DIGITAL                | SIB                         | 56C.1                    | 57C.1                    | 58C.1                    | 59C.1                    | 5AC.1                    | 5BC.1                    | B(1)         | R   | OUH            | Output in Hold Mode                                                                                                                                                                                                                                        |
|    | DIGITAL                | SIB                         | 56C.2                    | 57C.2                    | 58C.2                    | 59C.2                    | 5AC.2                    | 5BC.2                    | B(2)         | R   | DOH            | Output at High Limit ..100%                                                                                                                                                                                                                                |
|    | DIGITAL                | SIB                         | 56C.3                    | 57C.3                    | 58C.3                    | 59C.3                    | 5AC.3                    | 5BC.3                    | B(3)         | R   | DOL            | Output at Low Limit ..0%                                                                                                                                                                                                                                   |
|    | DIGITAL                | SIB                         | 56C.4                    | 57C.4                    | 58C.4                    | 59C.4                    | 5AC.4                    | 5BC.4                    | B(4)         | R   | DOF            | Output is Forced                                                                                                                                                                                                                                           |
|    | DIGITAL                | SIB                         | 56C.5                    | 57C.5                    | 58C.5                    | 59C.5                    | 5AC.5                    | 5BC.5                    | B(5)         | R   | AFB            | Incorrect Feedback                                                                                                                                                                                                                                         |
|    | DIGITAL                | SIB                         | 56C.6                    | 57C.6                    | 58C.6                    | 59C.6                    | 5AC.6                    | 5BC.6                    | B(6)         | R   | OUL            | Output DDC Lock                                                                                                                                                                                                                                            |
| 13 | UINT                   | SIW                         | 56D                      | 57D                      | 58D                      | 59D                      | 5AD                      | 5BD                      | C            | W   | INC@           | DDC Increase Logic Connection                                                                                                                                                                                                                              |
| 14 | UINT                   | SIW                         | 56E                      | 57E                      | 58E                      | 59E                      | 5AE                      | 5BE                      | C            | W   | DEC@           | DDC Decrease Logic Connection                                                                                                                                                                                                                              |
| 15 | UINT                   | SIW                         | 56F                      | 57F                      | 58F                      | 59F                      | 5AF                      | 5BF                      | C            | W   | ENL@           | Limit Function Enable Logic Connection                                                                                                                                                                                                                     |

## PROGRAMMABLE MODULES

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>PM1 | Citect<br>Address<br>PM2 | Citect<br>Address<br>PM3 | Citect<br>Address<br>PM4 | Citect<br>Address<br>PM5 | Citect<br>Address<br>PM6 | Citect<br>Address<br>PM7 | Citect<br>Address<br>PM8 | Item<br>Type | R/W | Johnson<br>Tag | Description                 |
|----|------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|-----|----------------|-----------------------------|
| 0  | BYTE                   | SIB                         | 40                       | A0                       | 100                      | 160                      | 1C0                      | 220                      | 280                      | 2E0                      | B            | W   | PMTYP          | Programmable Module Type    |
| 1  | UINT                   | SIW                         | 41                       | A1                       | 101                      | 161                      | 1C1                      | 221                      | 281                      | 2E1                      | W            | W   | PMOPT          | Programmable Module Options |
| 2  | BYTE                   | SIB                         | 42                       | A2                       | 102                      | 162                      | 1C2                      | 222                      | 282                      | 2E2                      | B            | W   | PMF1           | Function Channel #1 – F1    |
| 3  | BYTE                   | SIB                         | 43                       | A3                       | 103                      | 163                      | 1C3                      | 223                      | 283                      | 2E3                      | B            | W   | PMF2           | Function Channel #2 – F2    |
| 4  | BYTE                   | SIB                         | 44                       | A4                       | 104                      | 164                      | 1C4                      | 224                      | 284                      | 2E4                      | B            | W   | PMF3           | Function Channel #3 – F3    |
| 5  | BYTE                   | SIB                         | 45                       | A5                       | 105                      | 165                      | 1C5                      | 225                      | 285                      | 2E5                      | B            | W   | PMF4           | Function Channel #4 – F4    |
| 6  | BYTE                   | SIB                         | 46                       | A6                       | 106                      | 166                      | 1C6                      | 226                      | 286                      | 2E6                      | B            | W   | PMF5           | Function Channel #5 – F5    |
| 7  | BYTE                   | SIB                         | 47                       | A7                       | 107                      | 167                      | 1C7                      | 227                      | 287                      | 2E7                      | B            | W   | PMF6           | Function Channel #6 – F6    |
| 8  | BYTE                   | SIB                         | 48                       | A8                       | 108                      | 168                      | 1C8                      | 228                      | 288                      | 2E8                      | B            | W   | PMF7           | Function Channel #7 – F7    |
| 9  | BYTE                   | SIB                         | 49                       | A9                       | 109                      | 169                      | 1C9                      | 229                      | 289                      | 2E9                      | B            | W   | PMF8           | Function Channel #8 – F8    |
| 10 | UINT                   | SIW                         | 4A                       | AA                       | 10A                      | 16A                      | 1CA                      | 22A                      | 28A                      | 2EA                      | C            | W   | PMI1@          | Input Connection – I1@      |
| 11 | UINT                   | SIW                         | 4B                       | AB                       | 10B                      | 16B                      | 1CB                      | 22B                      | 28B                      | 2EB                      | C            | W   | PMI2@          | Input Connection – I2@      |
| 12 | UINT                   | SIW                         | 4C                       | AC                       | 10C                      | 16C                      | 1CC                      | 22C                      | 28C                      | 2EC                      | C            | W   | PMI3@          | Input Connection – I3@      |
| 13 | UINT                   | SIW                         | 4D                       | AD                       | 10D                      | 16D                      | 1CD                      | 22D                      | 28D                      | 2ED                      | C            | W   | PMI4@          | Input Connection – I4@      |
| 14 | UINT                   | SIW                         | 4E                       | AE                       | 10E                      | 16E                      | 1CE                      | 22E                      | 28E                      | 2EE                      | C            | W   | PMI5@          | Input Connection – I5@      |
| 15 | UINT                   | SIW                         | 4F                       | AF                       | 10F                      | 16F                      | 1CF                      | 22F                      | 28F                      | 2EF                      | C            | W   | PMI6@          | Input Connection – I6@      |
| 16 | UINT                   | SIW                         | 50                       | B0                       | 110                      | 170                      | 1D0                      | 230                      | 290                      | 2F0                      | C            | W   | PMI7@          | Input Connection – I7@      |
| 17 | UINT                   | SIW                         | 51                       | B1                       | 111                      | 171                      | 1D1                      | 231                      | 291                      | 2F1                      | C            | W   | PMI8@          | Input Connection – I8@      |
| 18 | UINT                   | SIW                         | 52                       | B2                       | 112                      | 172                      | 1D2                      | 232                      | 292                      | 2F2                      | C            | W   | PMI9@          | Input Connection – I9@      |
| 19 | UINT                   | SIW                         | 53                       | B3                       | 113                      | 173                      | 1D3                      | 233                      | 293                      | 2F3                      | C            | W   | PMI10@         | Input Connection – I10@     |
| 20 | UINT                   | SIW                         | 54                       | B4                       | 114                      | 174                      | 1D4                      | 234                      | 294                      | 2F4                      | C            | W   | PMI11@         | Input Connection – I11@     |
| 21 | UINT                   | SIW                         | 55                       | B5                       | 115                      | 175                      | 1D5                      | 235                      | 295                      | 2F5                      | C            | W   | PMI12@         | Input Connection – I12@     |
| 22 | UINT                   | SIW                         | 56                       | B6                       | 116                      | 176                      | 1D6                      | 236                      | 296                      | 2F6                      | C            | W   | PMI13@         | Input Connection – I13@     |
| 23 | UINT                   | SIW                         | 57                       | B7                       | 117                      | 177                      | 1D7                      | 237                      | 297                      | 2F7                      | C            | W   | PMI14@         | Input Connection – I14@     |
| 24 | UINT                   | SIW                         | 58                       | B8                       | 118                      | 178                      | 1D8                      | 238                      | 298                      | 2F8                      | C            | W   | PMI15@         | Input Connection – I15@     |
| 25 | UINT                   | SIW                         | 59                       | B9                       | 119                      | 179                      | 1D9                      | 239                      | 299                      | 2F9                      | C            | W   | PMI16@         | Input Connection – I16@     |
| 26 | REAL                   | SIN                         | 5A                       | BA                       | 11A                      | 17A                      | 1DA                      | 23A                      | 29A                      | 2FA                      | N            | W   | PMK01          | Module Constant – K1        |
| 27 | REAL                   | SIN                         | 5B                       | BB                       | 11B                      | 17B                      | 1DB                      | 23B                      | 29B                      | 2FB                      | N            | W   | PMK02          | Module Constant – K2        |
| 28 | REAL                   | SIN                         | 5C                       | BC                       | 11C                      | 17C                      | 1DC                      | 23C                      | 29C                      | 2FC                      | N            | W   | PMK03          | Module Constant – K3        |
| 29 | REAL                   | SIN                         | 5D                       | BD                       | 11D                      | 17D                      | 1DD                      | 23D                      | 29D                      | 2FD                      | N            | W   | PMK04          | Module Constant – K4        |
| 30 | REAL                   | SIN                         | 5E                       | BE                       | 11E                      | 17E                      | 1DE                      | 23E                      | 29E                      | 2FE                      | N            | W   | PMK05          | Module Constant – K5        |
| 31 | REAL                   | SIN                         | 5F                       | BF                       | 11F                      | 17F                      | 1DF                      | 23F                      | 29F                      | 2FF                      | N            | W   | PMK06          | Module Constant – K6        |
| 32 | REAL                   | SIN                         | 60                       | C0                       | 120                      | 180                      | 1E0                      | 240                      | 2A0                      | 300                      | N            | W   | PMK07          | Module Constant – K7        |

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>PM1 | Citect<br>Address<br>PM2 | Citect<br>Address<br>PM3 | Citect<br>Address<br>PM4 | Citect<br>Address<br>PM5 | Citect<br>Address<br>PM6 | Citect<br>Address<br>PM7 | Citect<br>Address<br>PM8 | Item<br>Type | R/W | Johnson<br>Tag | Description           |
|----|------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|-----|----------------|-----------------------|
| 33 | REAL                   | SIN                         | 61                       | C1                       | 121                      | 181                      | 1E1                      | 241                      | 2A1                      | 301                      | N            | W   | PMK08          | Module Constant – K8  |
| 34 | REAL                   | SIN                         | 62                       | C2                       | 122                      | 182                      | 1E2                      | 242                      | 2A2                      | 302                      | N            | W   | PMK09          | Module Constant – K9  |
| 35 | REAL                   | SIN                         | 63                       | C3                       | 123                      | 183                      | 1E3                      | 243                      | 2A3                      | 303                      | N            | W   | PMK10          | Module Constant – K10 |
| 36 | REAL                   | SIN                         | 64                       | C4                       | 124                      | 184                      | 1E4                      | 244                      | 2A4                      | 304                      | N            | W   | PMK11          | Module Constant – K11 |
| 37 | REAL                   | SIN                         | 65                       | C5                       | 125                      | 185                      | 1E5                      | 245                      | 2A5                      | 305                      | N            | W   | PMK12          | Module Constant – K12 |
| 38 | REAL                   | SIN                         | 66                       | C6                       | 126                      | 186                      | 1E6                      | 246                      | 2A6                      | 306                      | N            | W   | PMK13          | Module Constant – K13 |
| 39 | REAL                   | SIN                         | 67                       | C7                       | 127                      | 187                      | 1E7                      | 247                      | 2A7                      | 307                      | N            | W   | PMK14          | Module Constant – K14 |
| 40 | REAL                   | SIN                         | 68                       | C8                       | 128                      | 188                      | 1E8                      | 248                      | 2A8                      | 308                      | N            | W   | PMK15          | Module Constant – K15 |
| 41 | REAL                   | SIN                         | 69                       | C9                       | 129                      | 189                      | 1E9                      | 249                      | 2A9                      | 309                      | N            | W   | PMK16          | Module Constant – K16 |
| 42 | REAL                   | SIN                         | 6A                       | CA                       | 12A                      | 18A                      | 1EA                      | 24A                      | 2AA                      | 30A                      | N            | W   | PMK17          | Module Constant – K17 |
| 43 | REAL                   | SIN                         | 6B                       | CB                       | 12B                      | 18B                      | 1EB                      | 24B                      | 2AB                      | 30B                      | N            | W   | PMK18          | Module Constant – K18 |
| 44 | REAL                   | SIN                         | 6C                       | CC                       | 12C                      | 18C                      | 1EC                      | 24C                      | 2AC                      | 30C                      | N            | W   | PMK19          | Module Constant – K19 |
| 45 | REAL                   | SIN                         | 6D                       | CD                       | 12D                      | 18D                      | 1ED                      | 24D                      | 2AD                      | 30D                      | N            | W   | PMK20          | Module Constant – K20 |
| 46 | REAL                   | SIN                         | 6E                       | CE                       | 12E                      | 18E                      | 1EE                      | 24E                      | 2AE                      | 30E                      | N            | W   | PMK21          | Module Constant – K21 |
| 47 | REAL                   | SIN                         | 6F                       | CF                       | 12F                      | 18F                      | 1EF                      | 24F                      | 2AF                      | 30F                      | N            | W   | PMK22          | Module Constant – K22 |
| 48 | REAL                   | SIN                         | 70                       | D0                       | 130                      | 190                      | 1F0                      | 250                      | 2B0                      | 310                      | N            | W   | PMK23          | Module Constant – K23 |
| 49 | REAL                   | SIN                         | 71                       | D1                       | 131                      | 191                      | 1F1                      | 251                      | 2B1                      | 311                      | N            | W   | PMK24          | Module Constant – K24 |
| 50 | REAL                   | SIN                         | 72                       | D2                       | 132                      | 192                      | 1F2                      | 252                      | 2B2                      | 312                      | N            | W   | PMK25          | Module Constant – K25 |
| 51 | REAL                   | SIN                         | 73                       | D3                       | 133                      | 193                      | 1F3                      | 253                      | 2B3                      | 313                      | N            | W   | PMK26          | Module Constant – K26 |
| 52 | REAL                   | SIN                         | 74                       | D4                       | 134                      | 194                      | 1F4                      | 254                      | 2B4                      | 314                      | N            | W   | PMK27          | Module Constant – K27 |
| 53 | REAL                   | SIN                         | 75                       | D5                       | 135                      | 195                      | 1F5                      | 255                      | 2B5                      | 315                      | N            | W   | PMK28          | Module Constant – K28 |
| 54 | REAL                   | SIN                         | 76                       | D6                       | 136                      | 196                      | 1F6                      | 256                      | 2B6                      | 316                      | N            | W   | PMK29          | Module Constant – K29 |
| 55 | REAL                   | SIN                         | 77                       | D7                       | 137                      | 197                      | 1F7                      | 257                      | 2B7                      | 317                      | N            | W   | PMK30          | Module Constant – K30 |
| 56 | REAL                   | SIN                         | 78                       | D8                       | 138                      | 198                      | 1F8                      | 258                      | 2B8                      | 318                      | N            | W   | PMK31          | Module Constant – K31 |
| 57 | REAL                   | SIN                         | 79                       | D9                       | 139                      | 199                      | 1F9                      | 259                      | 2B9                      | 319                      | N            | W   | PMK32          | Module Constant – K32 |
| 58 | REAL                   | SIN                         | 7A                       | DA                       | 13A                      | 19A                      | 1FA                      | 25A                      | 2BA                      | 31A                      | N            | W   | PMK33          | Module Constant – K33 |
| 59 | REAL                   | SIN                         | 7B                       | DB                       | 13B                      | 19B                      | 1FB                      | 25B                      | 2BB                      | 31B                      | N            | W   | PMK34          | Module Constant – K34 |
| 60 | REAL                   | SIN                         | 7C                       | DC                       | 13C                      | 19C                      | 1FC                      | 25C                      | 2BC                      | 31C                      | N            | W   | PMOU1          | Output – Channel 1    |
| 61 | REAL                   | SIN                         | 7D                       | DD                       | 13D                      | 19D                      | 1FD                      | 25D                      | 2BD                      | 31D                      | N            | W   | PMOU2          | Output – Channel 2    |
| 62 | REAL                   | SIN                         | 7E                       | DE                       | 13E                      | 19E                      | 1FE                      | 25E                      | 2BE                      | 31E                      | N            | W   | PMOU3          | Output – Channel 3    |
| 63 | REAL                   | SIN                         | 7F                       | DF                       | 13F                      | 19F                      | 1FF                      | 25F                      | 2BF                      | 31F                      | N            | W   | PMOU4          | Output – Channel 4    |
| 64 | REAL                   | SIN                         | 80                       | E0                       | 140                      | 1A0                      | 200                      | 260                      | 2C0                      | 320                      | N            | W   | PMOU5          | Output – Channel 5    |
| 65 | REAL                   | SIN                         | 81                       | E1                       | 141                      | 1A1                      | 201                      | 261                      | 2C1                      | 321                      | N            | W   | PMOU6          | Output – Channel 6    |
| 66 | REAL                   | SIN                         | 82                       | E2                       | 142                      | 1A2                      | 202                      | 262                      | 2C2                      | 322                      | N            | W   | PMOU7          | Output – Channel 7    |
| 67 | REAL                   | SIN                         | 83                       | E3                       | 143                      | 1A3                      | 203                      | 263                      | 2C3                      | 323                      | N            | W   | PMOU8          | Output – Channel 8    |
| 68 | REAL                   | SIN                         | 84                       | E4                       | 144                      | 1A4                      | 204                      | 264                      | 2C4                      | 324                      | N            | W   | PMAX1          | Auxiliary Output 1    |
| 69 | REAL                   | SIN                         | 85                       | E5                       | 145                      | 1A5                      | 205                      | 265                      | 2C5                      | 325                      | N            | W   | PMAX2P         | Auxiliary Output 2    |

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>PM1 | Citect<br>Address<br>PM2 | Citect<br>Address<br>PM3 | Citect<br>Address<br>PM4 | Citect<br>Address<br>PM5 | Citect<br>Address<br>PM6 | Citect<br>Address<br>PM7 | Citect<br>Address<br>PM8 | Item<br>Type | R/W | Johnson<br>Tag | Description                |
|----|------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|-----|----------------|----------------------------|
| 70 | BYTE                   | SIB                         | 86                       | E6                       | 146                      | 1A6                      | 206                      | 266                      | 2C6                      | 326                      | B            | W   | PMHDC          | Hold Mode Control/Status   |
|    | DIGITAL                | SIB                         | 86.1                     | E6.1                     | 146.1                    | 1A6.1                    | 206.1                    | 266.1                    | 2C6.1                    | 326.1                    | B(1)         |     |                | Hold Channel #1            |
|    | DIGITAL                | SIB                         | 86.2                     | E6.2                     | 146.2                    | 1A6.2                    | 206.2                    | 266.2                    | 2C6.2                    | 326.2                    | B(2)         |     |                | Hold Channel #2            |
|    | DIGITAL                | SIB                         | 86.3                     | E6.3                     | 146.3                    | 1A6.3                    | 206.3                    | 266.3                    | 2C6.3                    | 326.3                    | B(3)         |     |                | Hold Channel #3            |
|    | DIGITAL                | SIB                         | 86.4                     | E6.4                     | 146.4                    | 1A6.4                    | 206.4                    | 266.4                    | 2C6.4                    | 326.4                    | B(4)         |     |                | Hold Channel #4            |
|    | DIGITAL                | SIB                         | 86.5                     | E6.5                     | 146.5                    | 1A6.5                    | 206.5                    | 266.5                    | 2C6.5                    | 326.5                    | B(5)         |     |                | Hold Channel #5            |
|    | DIGITAL                | SIB                         | 86.6                     | E6.6                     | 146.6                    | 1A6.6                    | 206.6                    | 266.6                    | 2C6.6                    | 326.6                    | B(6)         |     |                | Hold Channel #6            |
|    | DIGITAL                | SIB                         | 86.7                     | E6.7                     | 146.7                    | 1A6.7                    | 206.7                    | 266.7                    | 2C6.7                    | 326.7                    | B(7)         |     |                | Hold Channel #7            |
|    | DIGITAL                | SIB                         | 86.8                     | E6.8                     | 146.8                    | 1A6.8                    | 206.8                    | 266.8                    | 2C6.8                    | 326.8                    | B(8)         |     |                | Hold Channel #8            |
| 71 | BYTE                   | SIB                         | 87                       | E7                       | 147                      | 1A7                      | 207                      | 267                      | 2C7                      | 327                      | B            | W   | PMDO           | Outputs Control & Status   |
|    | DIGITAL                | SIB                         | 87.1                     | E7.1                     | 147.1                    | 1A7.1                    | 207.1                    | 267.1                    | 2C7.1                    | 327.1                    | B(1)         |     |                | DO Channel #1              |
|    | DIGITAL                | SIB                         | 87.2                     | E7.2                     | 147.2                    | 1A7.2                    | 207.2                    | 267.2                    | 2C7.2                    | 327.2                    | B(2)         |     |                | DO Channel #2              |
|    | DIGITAL                | SIB                         | 87.3                     | E7.3                     | 147.3                    | 1A7.3                    | 207.3                    | 267.3                    | 2C7.3                    | 327.3                    | B(3)         |     |                | DO Channel #3              |
|    | DIGITAL                | SIB                         | 87.4                     | E7.4                     | 147.4                    | 1A7.4                    | 207.4                    | 267.4                    | 2C7.4                    | 327.4                    | B(4)         |     |                | DO Channel #4              |
|    | DIGITAL                | SIB                         | 87.5                     | E7.5                     | 147.5                    | 1A7.5                    | 207.5                    | 267.5                    | 2C7.5                    | 327.5                    | B(5)         |     |                | DO Channel #5              |
|    | DIGITAL                | SIB                         | 87.6                     | E7.6                     | 147.6                    | 1A7.6                    | 207.6                    | 267.6                    | 2C7.6                    | 327.6                    | B(6)         |     |                | DO Channel #6              |
|    | DIGITAL                | SIB                         | 87.7                     | E7.7                     | 147.7                    | 1A7.7                    | 207.7                    | 267.7                    | 2C7.7                    | 327.7                    | B(7)         |     |                | DO Channel #7              |
|    | DIGITAL                | SIB                         | 87.8                     | E7.8                     | 147.8                    | 1A7.8                    | 207.8                    | 267.8                    | 2C7.8                    | 327.8                    | B(8)         |     |                | DO Channel #8              |
| 72 | UINT                   | SIW                         | 88                       | E8                       | 148                      | 1A8                      | 208                      | 268                      | 2C8                      | 328                      | W            | R   | PMST           | Programmable Module Status |
| 73 | LONG                   | SIL                         | 89                       | E9                       | 149                      | 1A9                      | 209                      | 269                      | 2C9                      | 329                      | L            | W   | PMAC1          | Accumulator Channel 1      |
| 74 | LONG                   | SIL                         | 8A                       | EA                       | 14A                      | 1AA                      | 20A                      | 26A                      | 2CA                      | 32A                      | L            | W   | PMAC2          | Accumulator Channel 2      |
| 75 | LONG                   | SIL                         | 8B                       | EB                       | 14B                      | 1AB                      | 20B                      | 26B                      | 2CB                      | 32B                      | L            | W   | PMAC3          | Accumulator Channel 3      |
| 76 | LONG                   | SIL                         | 8C                       | EC                       | 14C                      | 1AC                      | 20C                      | 26C                      | 2CC                      | 32C                      | L            | W   | PMAC4          | Accumulator Channel 4      |
| 77 | LONG                   | SIL                         | 8D                       | ED                       | 14D                      | 1AD                      | 20D                      | 26D                      | 2CD                      | 32D                      | L            | W   | PMAC5          | Accumulator Channel 5      |
| 78 | LONG                   | SIL                         | 8E                       | EE                       | 14E                      | 1AE                      | 20E                      | 26E                      | 2CE                      | 32E                      | L            | W   | PMAC6          | Accumulator Channel 6      |
| 79 | LONG                   | SIL                         | 9F                       | EF                       | 14F                      | 1AF                      | 20F                      | 26F                      | 2CF                      | 32F                      | L            | W   | PMAC7          | Accumulator Channel 7      |
| 80 | LONG                   | SIL                         | 90                       | F0                       | 150                      | 1B0                      | 210                      | 270                      | 2D0                      | 330                      | L            | W   | PMAC8          | Accumulator Channel 8      |

## PROGRAMMABLE MODULES

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>PM9 | Citect<br>Address<br>PM10 | Citect<br>Address<br>PM11 | Citect<br>Address<br>PM12 | Item<br>Type | R/W | Johnson<br>Tag | Description                 |
|----|------------------------|-----------------------------|--------------------------|---------------------------|---------------------------|---------------------------|--------------|-----|----------------|-----------------------------|
| 0  | BYTE                   | SIB                         | 340                      | 3A0                       | 400                       | 460                       | B            | W   | PMTYP          | Programmable Module Type    |
| 1  | UINT                   | SIW                         | 341                      | 3A1                       | 401                       | 461                       | W            | W   | PMOPT          | Programmable Module Options |
| 2  | BYTE                   | SIB                         | 342                      | 3A2                       | 402                       | 462                       | B            | W   | PMF1           | Function Channel #1 – F1    |
| 3  | BYTE                   | SIB                         | 343                      | 3A3                       | 403                       | 463                       | B            | W   | PMF2           | Function Channel #2 – F2    |
| 4  | BYTE                   | SIB                         | 344                      | 3A4                       | 404                       | 464                       | B            | W   | PMF3           | Function Channel #3 – F3    |
| 5  | BYTE                   | SIB                         | 345                      | 3A5                       | 405                       | 465                       | B            | W   | PMF4           | Function Channel #4 – F4    |
| 6  | BYTE                   | SIB                         | 346                      | 3A6                       | 406                       | 466                       | B            | W   | PMF5           | Function Channel #5 – F5    |
| 7  | BYTE                   | SIB                         | 347                      | 3A7                       | 407                       | 467                       | B            | W   | PMF6           | Function Channel #6 – F6    |
| 8  | BYTE                   | SIB                         | 348                      | 3A8                       | 408                       | 468                       | B            | W   | PMF7           | Function Channel #7 – F7    |
| 9  | BYTE                   | SIB                         | 349                      | 3A9                       | 409                       | 469                       | B            | W   | PMF8           | Function Channel #8 – F8    |
| 10 | UINT                   | SIW                         | 34A                      | 3AA                       | 40A                       | 46A                       | C            | W   | PMI1@          | Input Connection – I1@      |
| 11 | UINT                   | SIW                         | 34B                      | 3AB                       | 40B                       | 46B                       | C            | W   | PMI2@          | Input Connection – I2@      |
| 12 | UINT                   | SIW                         | 34C                      | 3AC                       | 40C                       | 46C                       | C            | W   | PMI3@          | Input Connection – I3@      |
| 13 | UINT                   | SIW                         | 34D                      | 3AD                       | 40D                       | 46D                       | C            | W   | PMI4@          | Input Connection – I4@      |
| 14 | UINT                   | SIW                         | 34E                      | 3AE                       | 40E                       | 46E                       | C            | W   | PMI5@          | Input Connection – I5@      |
| 15 | UINT                   | SIW                         | 34F                      | 3AF                       | 40F                       | 46F                       | C            | W   | PMI6@          | Input Connection – I6@      |
| 16 | UINT                   | SIW                         | 350                      | 3B0                       | 410                       | 470                       | C            | W   | PMI7@          | Input Connection – I7@      |
| 17 | UINT                   | SIW                         | 351                      | 3B1                       | 411                       | 471                       | C            | W   | PMI8@          | Input Connection – I8@      |
| 18 | UINT                   | SIW                         | 352                      | 3B2                       | 412                       | 472                       | C            | W   | PMI9@          | Input Connection – I9@      |
| 19 | UINT                   | SIW                         | 353                      | 3B3                       | 413                       | 473                       | C            | W   | PMI10@         | Input Connection – I10@     |
| 20 | UINT                   | SIW                         | 354                      | 3B4                       | 414                       | 474                       | C            | W   | PMI11@         | Input Connection – I11@     |
| 21 | UINT                   | SIW                         | 355                      | 3B5                       | 415                       | 475                       | C            | W   | PMI12@         | Input Connection – I12@     |
| 22 | UINT                   | SIW                         | 356                      | 3B6                       | 416                       | 476                       | C            | W   | PMI13@         | Input Connection – I13@     |
| 23 | UINT                   | SIW                         | 357                      | 3B7                       | 417                       | 477                       | C            | W   | PMI14@         | Input Connection – I14@     |
| 24 | UINT                   | SIW                         | 358                      | 3B8                       | 418                       | 478                       | C            | W   | PMI15@         | Input Connection – I15@     |
| 25 | UINT                   | SIW                         | 359                      | 3B9                       | 419                       | 479                       | C            | W   | PMI16@         | Input Connection – I16@     |
| 26 | REAL                   | SIN                         | 35A                      | 3BA                       | 41A                       | 47A                       | N            | W   | PMK01          | Module Constant – K1        |
| 27 | REAL                   | SIN                         | 35B                      | 3BB                       | 41B                       | 47B                       | N            | W   | PMK02          | Module Constant – K2        |
| 28 | REAL                   | SIN                         | 35C                      | 3BC                       | 41C                       | 47C                       | N            | W   | PMK03          | Module Constant – K3        |
| 29 | REAL                   | SIN                         | 35D                      | 3BD                       | 41D                       | 47D                       | N            | W   | PMK04          | Module Constant – K4        |
| 30 | REAL                   | SIN                         | 35E                      | 3BE                       | 41E                       | 47E                       | N            | W   | PMK05          | Module Constant – K5        |
| 31 | REAL                   | SIN                         | 35F                      | 3BF                       | 41F                       | 47F                       | N            | W   | PMK06          | Module Constant – K6        |
| 32 | REAL                   | SIN                         | 360                      | 3C0                       | 420                       | 480                       | N            | W   | PMK07          | Module Constant – K7        |

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>PM9 | Citect<br>Address<br>PM10 | Citect<br>Address<br>PM11 | Citect<br>Address<br>PM12 | Item<br>Type | R/W | Johnson<br>Tag | Description           |
|----|------------------------|-----------------------------|--------------------------|---------------------------|---------------------------|---------------------------|--------------|-----|----------------|-----------------------|
| 33 | REAL                   | SIN                         | 361                      | 3C1                       | 421                       | 481                       | N            | W   | PMK08          | Module Constant – K8  |
| 34 | REAL                   | SIN                         | 362                      | 3C2                       | 422                       | 482                       | N            | W   | PMK09          | Module Constant – K9  |
| 35 | REAL                   | SIN                         | 363                      | 3C3                       | 423                       | 483                       | N            | W   | PMK10          | Module Constant – K10 |
| 36 | REAL                   | SIN                         | 364                      | 3C4                       | 424                       | 484                       | N            | W   | PMK11          | Module Constant – K11 |
| 37 | REAL                   | SIN                         | 365                      | 3C5                       | 425                       | 485                       | N            | W   | PMK12          | Module Constant – K12 |
| 38 | REAL                   | SIN                         | 366                      | 3C6                       | 426                       | 486                       | N            | W   | PMK13          | Module Constant – K13 |
| 39 | REAL                   | SIN                         | 367                      | 3C7                       | 427                       | 487                       | N            | W   | PMK14          | Module Constant – K14 |
| 40 | REAL                   | SIN                         | 368                      | 3C8                       | 428                       | 488                       | N            | W   | PMK15          | Module Constant – K15 |
| 41 | REAL                   | SIN                         | 369                      | 3C9                       | 429                       | 489                       | N            | W   | PMK16          | Module Constant – K16 |
| 42 | REAL                   | SIN                         | 36A                      | 3CA                       | 42A                       | 48A                       | N            | W   | PMK17          | Module Constant – K17 |
| 43 | REAL                   | SIN                         | 36B                      | 3CB                       | 42B                       | 48B                       | N            | W   | PMK18          | Module Constant – K18 |
| 44 | REAL                   | SIN                         | 36C                      | 3CC                       | 42C                       | 48C                       | N            | W   | PMK19          | Module Constant – K19 |
| 45 | REAL                   | SIN                         | 36D                      | 3CD                       | 42D                       | 48D                       | N            | W   | PMK20          | Module Constant – K20 |
| 46 | REAL                   | SIN                         | 36E                      | 3CE                       | 42E                       | 48E                       | N            | W   | PMK21          | Module Constant – K21 |
| 47 | REAL                   | SIN                         | 36F                      | 3CF                       | 42F                       | 48F                       | N            | W   | PMK22          | Module Constant – K22 |
| 48 | REAL                   | SIN                         | 370                      | 3D0                       | 430                       | 490                       | N            | W   | PMK23          | Module Constant – K23 |
| 49 | REAL                   | SIN                         | 371                      | 3D1                       | 431                       | 491                       | N            | W   | PMK24          | Module Constant – K24 |
| 50 | REAL                   | SIN                         | 372                      | 3D2                       | 432                       | 492                       | N            | W   | PMK25          | Module Constant – K25 |
| 51 | REAL                   | SIN                         | 373                      | 3D3                       | 433                       | 493                       | N            | W   | PMK26          | Module Constant – K26 |
| 52 | REAL                   | SIN                         | 374                      | 3D4                       | 434                       | 494                       | N            | W   | PMK27          | Module Constant – K27 |
| 53 | REAL                   | SIN                         | 375                      | 3D5                       | 435                       | 495                       | N            | W   | PMK28          | Module Constant – K28 |
| 54 | REAL                   | SIN                         | 376                      | 3D6                       | 436                       | 496                       | N            | W   | PMK29          | Module Constant – K29 |
| 55 | REAL                   | SIN                         | 377                      | 3D7                       | 437                       | 497                       | N            | W   | PMK30          | Module Constant – K30 |
| 56 | REAL                   | SIN                         | 378                      | 3D8                       | 438                       | 498                       | N            | W   | PMK31          | Module Constant – K31 |
| 57 | REAL                   | SIN                         | 379                      | 3D9                       | 439                       | 499                       | N            | W   | PMK32          | Module Constant – K32 |
| 58 | REAL                   | SIN                         | 37A                      | 3DA                       | 43A                       | 49A                       | N            | W   | PMK33          | Module Constant – K33 |
| 59 | REAL                   | SIN                         | 37B                      | 3DB                       | 43B                       | 49B                       | N            | W   | PMK34          | Module Constant – K34 |
| 60 | REAL                   | SIN                         | 37C                      | 3DC                       | 43C                       | 49C                       | N            | W   | PMOU1          | Output – Channel 1    |
| 61 | REAL                   | SIN                         | 37D                      | 3DD                       | 43D                       | 49D                       | N            | W   | PMOU2          | Output – Channel 2    |
| 62 | REAL                   | SIN                         | 37E                      | 3DE                       | 43E                       | 49E                       | N            | W   | PMOU3          | Output – Channel 3    |
| 63 | REAL                   | SIN                         | 37F                      | 3DF                       | 43F                       | 49F                       | N            | W   | PMOU4          | Output – Channel 4    |
| 64 | REAL                   | SIN                         | 380                      | 3E0                       | 440                       | 4A0                       | N            | W   | PMOU5          | Output – Channel 5    |
| 65 | REAL                   | SIN                         | 381                      | 3E1                       | 441                       | 4A1                       | N            | W   | PMOU6          | Output – Channel 6    |
| 66 | REAL                   | SIN                         | 382                      | 3E2                       | 442                       | 4A2                       | N            | W   | PMOU7          | Output – Channel 7    |
| 67 | REAL                   | SIN                         | 383                      | 3E3                       | 443                       | 4A3                       | N            | W   | PMOU8          | Output – Channel 8    |
| 68 | REAL                   | SIN                         | 384                      | 3E4                       | 444                       | 4A4                       | N            | W   | PMAX1          | Auxiliary Output 1    |
| 69 | REAL                   | SIN                         | 385                      | 3E5                       | 445                       | 4A5                       | N            | W   | PMAX2P         | Auxiliary Output 2    |

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>PM9 | Citect<br>Address<br>PM10 | Citect<br>Address<br>PM11 | Citect<br>Address<br>PM12 | Item<br>Type | R/W | Johnson<br>Tag | Description                |
|----|------------------------|-----------------------------|--------------------------|---------------------------|---------------------------|---------------------------|--------------|-----|----------------|----------------------------|
| 70 | BYTE                   | SIB                         | 386                      | 3E6                       | 446                       | 4A6                       | B            | W   | PMHDC          | Hold Mode Control/Status   |
|    | DIGITAL                | SIB                         | 386.1                    | 3E6.1                     | 446.1                     | 4A6.1                     | B(1)         |     |                | Hold Channel #1            |
|    | DIGITAL                | SIB                         | 386.2                    | 3E6.2                     | 446.2                     | 4A6.2                     | B(2)         |     |                | Hold Channel #2            |
|    | DIGITAL                | SIB                         | 386.3                    | 3E6.3                     | 446.3                     | 4A6.3                     | B(3)         |     |                | Hold Channel #3            |
|    | DIGITAL                | SIB                         | 386.4                    | 3E6.4                     | 446.4                     | 4A6.4                     | B(4)         |     |                | Hold Channel #4            |
|    | DIGITAL                | SIB                         | 386.5                    | 3E6.5                     | 446.5                     | 4A6.5                     | B(5)         |     |                | Hold Channel #5            |
|    | DIGITAL                | SIB                         | 386.6                    | 3E6.6                     | 446.6                     | 4A6.6                     | B(6)         |     |                | Hold Channel #6            |
|    | DIGITAL                | SIB                         | 386.7                    | 3E6.7                     | 446.7                     | 4A6.7                     | B(7)         |     |                | Hold Channel #7            |
|    | DIGITAL                | SIB                         | 386.8                    | 3E6.8                     | 446.8                     | 4A6.8                     | B(8)         |     |                | Hold Channel #8            |
| 71 | BYTE                   | SIB                         | 387                      | 3E7                       | 447                       | 4A7                       | B            | W   | PMDO           | Outputs Control & Status   |
|    | DIGITAL                | SIB                         | 387.1                    | 3E7.1                     | 447.1                     | 4A7.1                     | B(1)         |     |                | DO Channel #1              |
|    | DIGITAL                | SIB                         | 387.2                    | 3E7.2                     | 447.2                     | 4A7.2                     | B(2)         |     |                | DO Channel #2              |
|    | DIGITAL                | SIB                         | 387.3                    | 3E7.3                     | 447.3                     | 4A7.3                     | B(3)         |     |                | DO Channel #3              |
|    | DIGITAL                | SIB                         | 387.4                    | 3E7.4                     | 447.4                     | 4A7.4                     | B(4)         |     |                | DO Channel #4              |
|    | DIGITAL                | SIB                         | 387.5                    | 3E7.5                     | 447.5                     | 4A7.5                     | B(5)         |     |                | DO Channel #5              |
|    | DIGITAL                | SIB                         | 387.6                    | 3E7.6                     | 447.6                     | 4A7.6                     | B(6)         |     |                | DO Channel #6              |
|    | DIGITAL                | SIB                         | 387.7                    | 3E7.7                     | 447.7                     | 4A7.7                     | B(7)         |     |                | DO Channel #7              |
|    | DIGITAL                | SIB                         | 387.8                    | 3E7.8                     | 447.8                     | 4A7.8                     | B(8)         |     |                | DO Channel #8              |
| 72 | UINT                   | SIW                         | 388                      | 3E8                       | 448                       | 4A8                       | W            | R   | PMST           | Programmable Module Status |
| 73 | LONG                   | SIL                         | 389                      | 3E9                       | 449                       | 4A9                       | L            | W   | PMAC1          | Accumulator Channel 1      |
| 74 | LONG                   | SIL                         | 38A                      | 3EA                       | 44A                       | 4AA                       | L            | W   | PMAC2          | Accumulator Channel 2      |
| 75 | LONG                   | SIL                         | 38B                      | 3EB                       | 44B                       | 4AB                       | L            | W   | PMAC3          | Accumulator Channel 3      |
| 76 | LONG                   | SIL                         | 38C                      | 3EC                       | 44C                       | 4AC                       | L            | W   | PMAC4          | Accumulator Channel 4      |
| 77 | LONG                   | SIL                         | 38D                      | 3ED                       | 44D                       | 4AD                       | L            | W   | PMAC5          | Accumulator Channel 5      |
| 78 | LONG                   | SIL                         | 38E                      | 3EE                       | 44E                       | 4AE                       | L            | W   | PMAC6          | Accumulator Channel 6      |
| 79 | LONG                   | SIL                         | 38F                      | 3EF                       | 44F                       | 4AF                       | L            | W   | PMAC7          | Accumulator Channel 7      |
| 80 | LONG                   | SIL                         | 390                      | 3F0                       | 450                       | 4B0                       | L            | W   | PMAC8          | Accumulator Channel 8      |



## TIME SCHEDULING

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>TS1 | Citect<br>Address<br>TS2 | Citect<br>Address<br>TS3 | Citect<br>Address<br>TS4 | Citect<br>Address<br>TS5 | Citect<br>Address<br>TS6 | Citect<br>Address<br>TS7 | Citect<br>Address<br>TS8 | Item<br>Type | R/W | Johnson<br>Tag | Description                                                                                 |
|----|------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|-----|----------------|---------------------------------------------------------------------------------------------|
| 0  | UINT<br>DIGITAL        | SIW<br>SIW                  | 840<br>840.1             | 850<br>850.1             | 860<br>860.1             | 870<br>870.1             | 880<br>880.1             | 890<br>890.1             | 8A0<br>8A0.1             | 8B0<br>8B0.1             | W<br>W(1)    | W   | TSOPT          | Time Schedule Options<br>0 = Logic Output Type<br>1 = Numeric Output Type (Future)<br>Spare |
|    | DIGITAL                | SIW                         | 840.2                    | 850.2                    | 860.2                    | 870.2                    | 880.2                    | 890.2                    | 8A0.2                    | 8B0.2                    | W(2)<br>0    |     |                |                                                                                             |
|    | DIGITAL                | SIW                         | 840.6                    | 850.6                    | 860.6                    | 870.6                    | 880.6                    | 890.6                    | 8A0.6                    | 8B0.6                    | W(6)         |     |                |                                                                                             |
|    | DIGITAL                | SIW                         | 840.7                    | 850.7                    | 860.7                    | 870.7                    | 880.7                    | 890.7                    | 8A0.7                    | 8B0.7                    | W(7)         |     | PUPM           | Mode set if PUPI=1: 0=hold, 1=auto                                                          |
|    | DIGITAL                | SIW                         | 840.8                    | 850.8                    | 860.8                    | 870.8                    | 880.8                    | 890.8                    | 8A0.8                    | 8B0.8                    | W(8)         |     | PUPI           | Force Mode at Power Up                                                                      |
| 1  | UINT                   | SIW                         | 841                      | 851                      | 861                      | 871                      | 881                      | 891                      | 8A1                      | 8B1                      | C            | W   | TSEX@          | External Extension logical connection                                                       |
| 2  | UINT                   | SIW                         | 842                      | 852                      | 862                      | 872                      | 882                      | 892                      | 8A2                      | 8B2                      | C            | W   | TSON@          | On forcing logical connection                                                               |
| 3  | UINT                   | SIW                         | 843                      | 853                      | 863                      | 873                      | 883                      | 893                      | 8A3                      | 8B3                      | C            | W   | TSOF@          | Off forcing logical connection                                                              |
| 4  | REAL                   | SIN                         | 844                      | 854                      | 864                      | 874                      | 884                      | 894                      | 8A4                      | 8B4                      | N            | W   | TSXTM          | Extension time (min)                                                                        |
| 5  | REAL                   | SIN                         | 845                      | 855                      | 865                      | 875                      | 885                      | 895                      | 8A5                      | 8B5                      | N            | W   | TSTIM          | Time to next event (min)                                                                    |
| 6  | BYTE                   | SIB                         | 846                      | 856                      | 866                      | 876                      | 886                      | 896                      | 8A6                      | 8B6                      | B            | W   | TSSTA          | Time Schedule Status                                                                        |
|    | DIGITAL                | SIB                         | 846.1                    | 856.1                    | 866.1                    | 876.1                    | 886.1                    | 896.1                    | 8A6.1                    | 8B6.1                    | B(1)         | W   | TSHLD          | Hold Mode                                                                                   |
|    | DIGITAL                | SIB                         | 846.2                    | 856.2                    | 866.2                    | 876.2                    | 886.2                    | 896.2                    | 8A6.2                    | 8B6.2                    | B(2)         | W   | TSOUT          | Output Status & Control                                                                     |
|    | DIGITAL                | SIB                         | 846.3                    | 856.3                    | 866.3                    | 876.3                    | 886.3                    | 896.3                    | 8A6.3                    | 8B6.3                    | B(3)         | W   | TSEXT          | Extension Command                                                                           |
|    | DIGITAL                | SIB                         | 846.4                    | 856.4                    | 866.4                    | 876.4                    | 886.4                    | 896.4                    | 8A6.4                    | 8B6.4                    | B(4)         | R   | TSNXO          | Next Output                                                                                 |
|    | DIGITAL                | SIB                         | 846.5                    | 856.5                    | 866.5                    | 876.5                    | 886.5                    | 896.5                    | 8A6.5                    | 8B6.5                    | B(5)         | R   | TSEXS          | Extension (keyboard/serial link)                                                            |
|    | DIGITAL                | SIB                         | 846.6                    | 856.6                    | 866.6                    | 876.6                    | 886.6                    | 896.6                    | 8A6.6                    | 8B6.6                    | B(6)         | R   | TSXDI          | Extension from DI                                                                           |
|    | DIGITAL                | SIB                         | 846.7                    | 856.7                    | 866.7                    | 876.7                    | 886.7                    | 896.7                    | 8A6.7                    | 8B6.7                    | B(7)         | R   | TSO NF         | Forced ON status                                                                            |
|    | DIGITAL                | SIB                         | 846.8                    | 856.8                    | 866.8                    | 876.8                    | 886.8                    | 896.8                    | 8A6.8                    | 8B6.8                    | B(8)         | R   | TSOFF          | Forced OFF Status                                                                           |

## OPTIMAL START/STOP

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>TS1 | Citect<br>Address<br>TS2 | Item<br>Type | R/W | Johnson<br>Tag | Description                                 |
|----|------------------------|-----------------------------|--------------------------|--------------------------|--------------|-----|----------------|---------------------------------------------|
| 0  | BYTE                   | SIB                         | 8C0                      | 8E0                      | B            | W   | OSOPT          | Module Options                              |
|    | DIGITAL                | SIB                         | 8C0.1                    | 8E0.1                    | B(1)         |     |                | Heating                                     |
|    | DIGITAL                | SIB                         | 8C0.2                    | 8E0.2                    | B(2)         |     |                | Cooling Mode                                |
|    | DIGITAL                | SIB                         | 8C0.3                    | 8E0.3                    | B(3)         |     |                | Spare                                       |
|    |                        |                             |                          |                          | <b>0</b>     |     |                |                                             |
|    | DIGITAL                | SIB                         | 8C0.6                    | 8E0.6                    | B(6)         |     |                |                                             |
|    | DIGITAL                | SIB                         | 8C0.7                    | 8E0.7                    | B(7)         |     | PUPM           | Mode set if PUPI = 1: 0 = hold, 1 = auto    |
|    | DIGITAL                | SIB                         | 8C0.8                    | 8E0.8                    | B(8)         |     | PUPI           | Force Mode at Power Up                      |
| 1  | UINT                   | SIW                         | 8C1                      | 8E1                      | C            | W   | OSZT@          | Zone Temperature connection                 |
| 2  | UINT                   | SIW                         | 8C2                      | 8E2                      | C            | W   | OSOT@          | Outdoor temperature connection              |
| 3  | UINT                   | SIW                         | 8C3                      | 8E3                      | C            | W   | OSSP@          | Zone Temperature Set point connection       |
| 4  | UINT                   | SIW                         | 8C4                      | 8E4                      | C            | W   | OSOB@          | Off set point bias connection               |
| 5  | UINT                   | SIW                         | 8C5                      | 8E5                      | C            | W   | OSDI@          | Disable module connection                   |
| 6  | UINT                   | SIW                         | 8C6                      | 8E6                      | C            | W   | OSDA@          | Disable adaptive action connection          |
| 7  | UINT                   | SIW                         | 8C7                      | 8E7                      | C            | W   | OSTS@          | Connection at Time Schedule Output          |
| 8  | UINT                   | SIW                         | 8C8                      | 8E8                      | C            | W   | OSNX@          | Connection at Next Output                   |
| 9  | UINT                   | SIW                         | 8C9                      | 8E9                      | C            | W   | OSTIM@         | Connection at Time to Next Output           |
| 10 | REAL                   | SIN                         | 8CA                      | 8EA                      | N            | W   | OSPURGE        | Minimum cool/heat time [min]                |
| 11 | REAL                   | SIN                         | 8CB                      | 8EB                      | N            | W   | OSMAXST        | Maximum Start Up time [min]                 |
| 12 | REAL                   | SIN                         | 8CC                      | 8EC                      | N            | W   | OSMAXSO        | Maximum Shut Down time [min]                |
| 13 | REAL                   | SIN                         | 8CD                      | 8ED                      | N            | W   | OSBHK          | Start Mode Building heating factor          |
| 14 | REAL                   | SIN                         | 8CE                      | 8EE                      | N            | W   | OSBCK          | Start Mode Building cooling factor          |
| 15 | REAL                   | SIN                         | 8CF                      | 8EF                      | N            | W   | OSSBHK         | Stop Mode Building heating factor           |
| 16 | REAL                   | SIN                         | 8D0                      | 8F0                      | N            | W   | OSSBCK         | Stop Mode Building cooling factor           |
| 17 | REAL                   | SIN                         | 8D1                      | 8F1                      | N            | W   | OSFW           | Percentage adaptive control (Filter Weight) |
| 18 | REAL                   | SIN                         | 8D2                      | 8F2                      | N            | W   | OSHTD          | Outdoor Heating Design temperature          |
| 19 | REAL                   | SIN                         | 8D3                      | 8F3                      | N            | W   | OSCTD          | Outdoor Cooling Design temperature          |
| 20 | REAL                   | SIN                         | 8D4                      | 8F4                      | N            | W   | OSCRNG         | Control range                               |
| 21 | REAL                   | SIN                         | 8D5                      | 8F5                      | N            | W   | OSSP           | Zone Temperature On Set Point               |
| 22 | REAL                   | SIN                         | 8D6                      | 8F6                      | N            | W   | OSOB           | Zone Temperature Off Set Point Bias         |
| 23 | REAL                   | SIN                         | 8D7                      | 8F7                      | N            | W   | OSTIM          | Remaining Time to next event                |

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>TS1 | Citect<br>Address<br>TS2 | Item<br>Type | R/W | Johnson<br>Tag | Description                       |
|----|------------------------|-----------------------------|--------------------------|--------------------------|--------------|-----|----------------|-----------------------------------|
| 24 | BYTE                   | SIB                         | 8D8                      | 8F8                      | B            | W   | OSSTA          | Operating Status                  |
|    | DIGITAL                | SIB                         | 8D8.1                    | 8F8.1                    | B(1)         | W   | OSHLD          | Set Hold Mode                     |
|    | DIGITAL                | SIB                         | 8D8.2                    | 8F8.2                    | B(2)         | W   | OSOUT          | Output Status & Control           |
|    | DIGITAL                | SIB                         | 8D8.3                    | 8F8.3                    | B(3)         | R   | OSHEAT         | Operating Mode (1 = Heat)         |
|    | DIGITAL                | SIB                         | 8D8.4                    | 8F8.4                    | B(4)         | R   | OSPRE          | Optimal START pre heating/cooling |
|    | DIGITAL                | SIB                         | 8D8.5                    | 8F8.5                    | B(5)         | R   | OSSTO          | Optimal STOP pre heating/cooling  |
|    | DIGITAL                | SIB                         | 8D8.6                    | 8F8.6                    | B(6)         | R   | OSIN           | Value of the command input        |
|    | DIGITAL                | SIB                         | 8D8.7                    | 8F8.7                    | B(7)         | R   | OSADP          | Adapting Algorithm disabled       |
|    | DIGITAL                | SIB                         | 8D8.8                    | 8F8.8                    | B(8)         | R   | OSDAS          | Module disabled                   |

## EXTENSION MODULES

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>XT1 | Citect<br>Address<br>XT2 | Citect<br>Address<br>XT3 | Citect<br>Address<br>XT4 | Citect<br>Address<br>XT5 | Citect<br>Address<br>XT6 | Citect<br>Address<br>XT7 | Citect<br>Address<br>XT8 | Item<br>Type | R/W | Johnson<br>Tag | Description                          |
|----|------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|-----|----------------|--------------------------------------|
| 0  | UINT                   | SIW                         | 5C0                      | 610                      | 660                      | 6B0                      | 700                      | 750                      | 7A0                      | 7F0                      | W            | W   | XTIOMAP        | Extension Module I/O Map             |
|    | DIGITAL                | SIW                         | 5C0.1                    | 610.1                    | 660.1                    | 6B0.1                    | 700.1                    | 750.1                    | 7A0.1                    | 7F0.1                    | W(1)         |     |                | I/O1 & I/O2 0 = Not Used, 1 = Used   |
|    | DIGITAL                | SIW                         | 5C0.2                    | 610.2                    | 660.2                    | 6B0.2                    | 700.2                    | 750.2                    | 7A0.2                    | 7F0.2                    | W(2)         |     |                | I/O3 & I/O4 0 = Not Used, 1 = Used   |
|    | DIGITAL                | SIW                         | 5C0.3                    | 610.3                    | 660.3                    | 6B0.3                    | 700.3                    | 750.3                    | 7A0.3                    | 7F0.3                    | W(3)         |     |                | I/O5 & I/O6 0 = Not Used, 1 = Used   |
|    | DIGITAL                | SIW                         | 5C0.4                    | 610.4                    | 660.4                    | 6B0.4                    | 700.4                    | 750.4                    | 7A0.4                    | 7F0.4                    | W(4)         |     |                | I/O7 & I/O8 0 = Not Used, 1 = Used   |
|    | DIGITAL                | SIW                         | 5C0.5                    | 610.5                    | 660.5                    | 6B0.5                    | 700.5                    | 750.5                    | 7A0.5                    | 7F0.5                    | W(5)         |     |                | I/O9 & I/O10 0 = Not Used, 1 = Used  |
|    | DIGITAL                | SIW                         | 5C0.6                    | 610.6                    | 660.6                    | 6B0.6                    | 700.6                    | 750.6                    | 7A0.6                    | 7F0.6                    | W(6)         |     |                | I/O11 & I/O12 0 = Not Used, 1 = Used |
|    | DIGITAL                | SIW                         | 5C0.7                    | 610.7                    | 660.7                    | 6B0.7                    | 700.7                    | 750.7                    | 7A0.7                    | 7F0.7                    | W(7)         |     |                | I/O13 & I/O14 0 = Not Used, 1 = Used |
|    | DIGITAL                | SIW                         | 5C0.8                    | 610.8                    | 660.8                    | 6B0.8                    | 700.8                    | 750.8                    | 7A0.8                    | 7F0.8                    | W(8)         |     |                | I/O15 & I/O16 0 = Not Used, 1 = Used |
| 1  | UINT                   | SIW                         | 5C1                      | 611                      | 661                      | 6B1                      | 701                      | 751                      | 7A1                      | 7F1                      | W            | W   | XTIOTYP        | Extension Module I/O Type            |
|    | DIGITAL                | SIW                         | 5C1.1                    | 611.1                    | 661.1                    | 6B1.1                    | 701.1                    | 751.1                    | 7A1.1                    | 7F1.1                    | W(1)         |     |                | I/O1 & I/O2 0 = Digital, 1 = Analog  |
|    | DIGITAL                | SIW                         | 5C1.2                    | 611.2                    | 661.2                    | 6B1.2                    | 701.2                    | 751.2                    | 7A1.2                    | 7F1.2                    | W(2)         |     |                | I/O3 & I/O4 0 = Digital, 1 = Analog  |
|    | DIGITAL                | SIW                         | 5C1.3                    | 611.3                    | 661.3                    | 6B1.3                    | 701.3                    | 751.3                    | 7A1.3                    | 7F1.3                    | W(3)         |     |                | I/O5 & I/O6 0 = Digital, 1 = Analog  |
|    | DIGITAL                | SIW                         | 5C1.4                    | 611.4                    | 661.4                    | 6B1.4                    | 701.4                    | 751.4                    | 7A1.4                    | 7F1.4                    | W(4)         |     |                | I/O7 & I/O8 0 = Digital, 1 = Analog  |
| 2  | UINT                   | SIW                         | 5C2                      | 612                      | 662                      | 6B2                      | 702                      | 752                      | 7A2                      | 7F2                      | W            | W   | XTIOMOD        | Extension Module I/O Mode            |
|    | DIGITAL                | SIW                         | 5C2.1                    | 612.1                    | 662.1                    | 6B2.1                    | 702.1                    | 752.1                    | 7A2.1                    | 7F2.1                    | W(1)         |     |                | I/O1 & I/O2 0 = Input, 1 = Output    |
|    | DIGITAL                | SIW                         | 5C2.2                    | 612.2                    | 662.2                    | 6B2.2                    | 702.2                    | 752.2                    | 7A2.2                    | 7F2.2                    | W(2)         |     |                | I/O3 & I/O4 0 = Input, 1 = Output    |
|    | DIGITAL                | SIW                         | 5C2.3                    | 612.3                    | 662.3                    | 6B2.3                    | 702.3                    | 752.3                    | 7A2.3                    | 7F2.3                    | W(3)         |     |                | I/O5 & I/O6 0 = Input, 1 = Output    |
|    | DIGITAL                | SIW                         | 5C2.4                    | 612.4                    | 662.4                    | 6B2.4                    | 702.4                    | 752.4                    | 7A2.4                    | 7F2.4                    | W(4)         |     |                | I/O7 & I/O8 0 = Input, 1 = Output    |
|    | DIGITAL                | SIW                         | 5C2.5                    | 612.5                    | 662.5                    | 6B2.5                    | 702.5                    | 752.5                    | 7A2.5                    | 7F2.5                    | W(5)         |     |                | I/O9 & I/O10 0 = Input, 1 = Output   |
|    | DIGITAL                | SIW                         | 5C2.6                    | 612.6                    | 662.6                    | 6B2.6                    | 702.6                    | 752.6                    | 7A2.6                    | 7F2.6                    | W(6)         |     |                | I/O11 & I/O12 0 = Input, 1 = Output  |
|    | DIGITAL                | SIW                         | 5C2.7                    | 612.7                    | 662.7                    | 6B2.7                    | 702.7                    | 752.7                    | 7A2.7                    | 7F2.7                    | W(7)         |     |                | I/O13 & I/O14 0 = Input, 1 = Output  |
|    | DIGITAL                | SIW                         | 5C2.8                    | 612.8                    | 662.8                    | 6B2.8                    | 702.8                    | 752.8                    | 7A2.8                    | 7F2.8                    | W(8)         |     |                | I/O15 & I/O16 0 = Input, 1 = Output  |
| 3  | BYTE                   | SIB                         | 5C3                      | 613                      | 663                      | 6B3                      | 703                      | 753                      | 7A3                      | 7F3                      | B            | W   | XTADXX         | Extension Module Address 0 to 255    |
| 4  | UINT                   | SIW                         | 5C4                      | 614                      | 664                      | 6B4                      | 704                      | 754                      | 7A4                      | 7F4                      | C            | W   | XTI1@          | Point Connection - I1                |
| 5  | UINT                   | SIW                         | 5C5                      | 615                      | 665                      | 6B5                      | 705                      | 755                      | 7A5                      | 7F5                      | C            | W   | XTI2@          | Point Connection - I2                |
| 6  | UINT                   | SIW                         | 5C6                      | 616                      | 666                      | 6B6                      | 706                      | 756                      | 7A6                      | 7F6                      | C            | W   | XTI3@          | Point Connection - I3                |
| 7  | UINT                   | SIW                         | 5C7                      | 617                      | 667                      | 6B7                      | 707                      | 757                      | 7A7                      | 7F7                      | C            | W   | XTI4@          | Point Connection - I4                |
| 8  | UINT                   | SIW                         | 5C8                      | 618                      | 668                      | 6B8                      | 708                      | 758                      | 7A8                      | 7F8                      | C            | W   | XTI5@          | Point Connection - I5                |
| 9  | UINT                   | SIW                         | 5C9                      | 619                      | 669                      | 6B9                      | 709                      | 759                      | 7A9                      | 7F9                      | C            | W   | XTI6@          | Point Connection - I6                |
| 10 | UINT                   | SIW                         | 5CA                      | 61A                      | 66A                      | 6BA                      | 70A                      | 75A                      | 7AA                      | 7FA                      | C            | W   | XTI7@          | Point Connection - I7                |

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>XT1 | Citect<br>Address<br>XT2 | Citect<br>Address<br>XT3 | Citect<br>Address<br>XT4 | Citect<br>Address<br>XT5 | Citect<br>Address<br>XT6 | Citect<br>Address<br>XT7 | Citect<br>Address<br>XT8 | Item<br>Type | R/W | Johnson<br>Tag | Description             |          |
|----|------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|-----|----------------|-------------------------|----------|
| 11 | UINT                   | SIW                         | 5CB                      | 61B                      | 66B                      | 6BB                      | 70B                      | 75B                      | 7AB                      | 7FB                      | C            | W   | XTI8@          | Point Connection - I8   |          |
| 12 | REAL                   | SIN                         | 5CC                      | 61C                      | 66C                      | 6BC                      | 70C                      | 75C                      | 7AC                      | 7FC                      | N            | W   | XTAHR1         | Analog High Range       | Point #1 |
| 13 | REAL                   | SIN                         | 5CD                      | 61D                      | 66D                      | 6BD                      | 70D                      | 75D                      | 7AD                      | 7FD                      | N            | W   | XTALR1         | Analog Low Range        | Point #1 |
| 14 | REAL                   | SIN                         | 5CE                      | 61E                      | 66E                      | 6BE                      | 70E                      | 75E                      | 7AE                      | 7FE                      | N            | W   | XTAHR2         | Analog High Range       | Point #2 |
| 15 | REAL                   | SIN                         | 5CF                      | 61F                      | 66F                      | 6BF                      | 70F                      | 75F                      | 7AF                      | 7FF                      | N            | W   | XTALR2         | Analog Low Range        | Point #2 |
| 16 | REAL                   | SIN                         | 5D0                      | 620                      | 670                      | 6C0                      | 710                      | 760                      | 7B0                      | 800                      | N            | W   | XTAHR3         | Analog High Range       | Point #3 |
| 17 | REAL                   | SIN                         | 5D1                      | 621                      | 671                      | 6C1                      | 711                      | 761                      | 7B1                      | 801                      | N            | W   | XTALR3         | Analog Low Range        | Point #3 |
| 18 | REAL                   | SIN                         | 5D2                      | 622                      | 672                      | 6C2                      | 712                      | 762                      | 7B2                      | 802                      | N            | W   | XTAHR4         | Analog High Range       | Point #4 |
| 19 | REAL                   | SIN                         | 5D3                      | 623                      | 673                      | 6C3                      | 713                      | 763                      | 7B3                      | 803                      | N            | W   | XTALR4         | Analog Low Range        | Point #4 |
| 20 | REAL                   | SIN                         | 5D4                      | 624                      | 674                      | 6C4                      | 714                      | 764                      | 7B4                      | 804                      | N            | W   | XTAHR5         | Analog High Range       | Point #5 |
| 21 | REAL                   | SIN                         | 5D5                      | 625                      | 675                      | 6C5                      | 715                      | 765                      | 7B5                      | 805                      | N            | W   | XTALR5         | Analog Low Range        | Point #5 |
| 22 | REAL                   | SIN                         | 5D6                      | 626                      | 676                      | 6C6                      | 716                      | 766                      | 7B6                      | 806                      | N            | W   | XTAHR6         | Analog High Range       | Point #6 |
| 23 | REAL                   | SIN                         | 5D7                      | 627                      | 677                      | 6C7                      | 717                      | 767                      | 7B7                      | 807                      | N            | W   | XTALR6         | Analog Low Range        | Point #6 |
| 24 | REAL                   | SIN                         | 5D8                      | 628                      | 678                      | 6C8                      | 718                      | 768                      | 7B8                      | 808                      | N            | W   | XTAHR7         | Analog High Range       | Point #7 |
| 25 | REAL                   | SIN                         | 5D9                      | 629                      | 679                      | 6C9                      | 719                      | 769                      | 7B9                      | 809                      | N            | W   | XTALR7         | Analog Low Range        | Point #7 |
| 26 | REAL                   | SIN                         | 5DA                      | 62A                      | 67A                      | 6CA                      | 71A                      | 76A                      | 7BA                      | 80A                      | N            | W   | XTAHR8         | Analog High Range       | Point #8 |
| 27 | REAL                   | SIN                         | 5DB                      | 62B                      | 67B                      | 6CB                      | 71B                      | 76B                      | 7BB                      | 80B                      | N            | W   | XTALR8         | Analog Low Range        | Point #8 |
| 28 | REAL                   | SIN                         | 5DC                      | 62C                      | 67C                      | 6CC                      | 71C                      | 76C                      | 7BC                      | 80C                      | N            | W   | XTHIA1         | High Alarm Limit        | Point #1 |
| 29 | REAL                   | SIN                         | 5DD                      | 62D                      | 67D                      | 6CD                      | 71D                      | 76D                      | 7BD                      | 80D                      | N            | W   | XTLOA1         | Low Alarm Limit         | Point #1 |
| 30 | REAL                   | SIN                         | 5DE                      | 62E                      | 67E                      | 6CE                      | 71E                      | 76E                      | 7BE                      | 80E                      | N            | W   | XTHIA2         | High Alarm Limit        | Point #2 |
| 31 | REAL                   | SIN                         | 5DF                      | 62F                      | 67F                      | 6CF                      | 71F                      | 76F                      | 7BF                      | 80F                      | N            | W   | XTLOA2         | Low Alarm Limit         | Point #2 |
| 32 | REAL                   | SIN                         | 5E0                      | 630                      | 680                      | 6D0                      | 720                      | 770                      | 7C0                      | 810                      | N            | W   | XTHIA3         | High Alarm Limit        | Point #3 |
| 33 | REAL                   | SIN                         | 5E1                      | 631                      | 681                      | 6D1                      | 721                      | 771                      | 7C1                      | 811                      | N            | W   | XTLOA3         | Low Alarm Limit         | Point #3 |
| 34 | REAL                   | SIN                         | 5E2                      | 632                      | 682                      | 6D2                      | 722                      | 772                      | 7C2                      | 812                      | N            | W   | XTHIA4         | High Alarm Limit        | Point #4 |
| 35 | REAL                   | SIN                         | 5E3                      | 633                      | 683                      | 6D3                      | 723                      | 773                      | 7C3                      | 813                      | N            | W   | XTLOA4         | Low Alarm Limit         | Point #4 |
| 36 | REAL                   | SIN                         | 5E4                      | 634                      | 684                      | 6D4                      | 724                      | 774                      | 7C4                      | 814                      | N            | W   | XTHIA5         | High Alarm Limit        | Point #5 |
| 37 | REAL                   | SIN                         | 5E5                      | 635                      | 685                      | 6D5                      | 725                      | 775                      | 7C5                      | 815                      | N            | W   | XTLOA5         | Low Alarm Limit         | Point #5 |
| 38 | REAL                   | SIN                         | 5E6                      | 636                      | 686                      | 6D6                      | 726                      | 776                      | 7C6                      | 816                      | N            | W   | XTHIA6         | High Alarm Limit        | Point #6 |
| 39 | REAL                   | SIN                         | 5E7                      | 637                      | 687                      | 6D7                      | 727                      | 777                      | 7C7                      | 817                      | N            | W   | XTLOA6         | Low Alarm Limit         | Point #6 |
| 40 | REAL                   | SIN                         | 5E8                      | 638                      | 688                      | 6D8                      | 728                      | 778                      | 7C8                      | 818                      | N            | W   | XTHIA7         | High Alarm Limit        | Point #7 |
| 41 | REAL                   | SIN                         | 5E9                      | 639                      | 689                      | 6D9                      | 729                      | 779                      | 7C9                      | 819                      | N            | W   | XTLOA7         | Low Alarm Limit         | Point #7 |
| 42 | REAL                   | SIN                         | 5EA                      | 63A                      | 68A                      | 6DA                      | 72A                      | 77A                      | 7CA                      | 81A                      | N            | W   | XTHIA8         | High Alarm Limit        | Point #8 |
| 43 | REAL                   | SIN                         | 5EB                      | 63B                      | 68B                      | 6DB                      | 72B                      | 77B                      | 7CB                      | 81B                      | N            | W   | XTLOA8         | Low Alarm Limit         | Point #8 |
| 44 | UINT                   | SIW                         | 5EC                      | 63C                      | 68C                      | 6DC                      | 72C                      | 77C                      | 7CC                      | 81C                      | W            | R   | XTAIS          | Extension Module Alarms |          |
|    | DIGITAL                | SIW                         | 5EC.1                    | 63C.1                    | 68C.1                    | 6DC.1                    | 72C.1                    | 77C.1                    | 7CC.1                    | 81C.1                    | W(1)         |     | XTAIH1         | High Alarm Status       | Point #1 |
|    | DIGITAL                | SIW                         | 5EC.2                    | 63C.2                    | 68C.2                    | 6DC.2                    | 72C.2                    | 77C.2                    | 7CC.2                    | 81C.2                    | W(2)         |     | XTAIL1         | Low Alarm Status        | Point #1 |

| RI | Citect Data Type | Citect Address Prefix | Citect Address XT1 | Citect Address XT2 | Citect Address XT3 | Citect Address XT4 | Citect Address XT5 | Citect Address XT6 | Citect Address XT7 | Citect Address XT8 | Item Type | R/W | Johnson Tag | Description                  |          |
|----|------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------|-----|-------------|------------------------------|----------|
|    | DIGITAL          | SIW                   | 5EC.3              | 63C.3              | 68C.3              | 6DC.3              | 72C.3              | 77C.3              | 7CC.3              | 81C.3              | W(3)      |     | XTAIH2      | High Alarm Status            | Point #2 |
|    | DIGITAL          | SIW                   | 5EC.4              | 63C.4              | 68C.4              | 6DC.4              | 72C.4              | 77C.4              | 7CC.4              | 81C.4              | W(4)      |     | XTAIL2      | Low Alarm Status             | Point #2 |
|    | DIGITAL          | SIW                   | 5EC.5              | 63C.5              | 68C.5              | 6DC.5              | 72C.5              | 77C.5              | 7CC.5              | 81C.5              | W(5)      |     | XTAIH3      | High Alarm Status            | Point #3 |
|    | DIGITAL          | SIW                   | 5EC.6              | 63C.6              | 68C.6              | 6DC.6              | 72C.6              | 77C.6              | 7CC.6              | 81C.6              | W(6)      |     | XTAIL3      | Low Alarm Status             | Point #3 |
|    | DIGITAL          | SIW                   | 5EC.7              | 63C.7              | 68C.7              | 6DC.7              | 72C.7              | 77C.7              | 7CC.7              | 81C.7              | W(7)      |     | XTAIH4      | High Alarm Status            | Point #4 |
|    | DIGITAL          | SIW                   | 5EC.8              | 63C.8              | 68C.8              | 6DC.8              | 72C.8              | 77C.8              | 7CC.8              | 81C.8              | W(8)      |     | XTAIL4      | Low Alarm Status             | Point #4 |
|    | DIGITAL          | SIW                   | 5EC.9              | 63C.9              | 68C.9              | 6DC.9              | 72C.9              | 77C.9              | 7CC.9              | 81C.9              | W(9)      |     | XTAIH5      | High Alarm Status            | Point #5 |
|    | DIGITAL          | SIW                   | 5EC.10             | 63C.10             | 68C.10             | 6DC.10             | 72C.10             | 77C.10             | 7CC.10             | 81C.10             | W(10)     |     | XTAIL5      | Low Alarm Status             | Point #5 |
|    | DIGITAL          | SIW                   | 5EC.11             | 63C.11             | 68C.11             | 6DC.11             | 72C.11             | 77C.11             | 7CC.11             | 81C.11             | W(11)     |     | XTAIH6      | High Alarm Status            | Point #6 |
|    | DIGITAL          | SIW                   | 5EC.12             | 63C.12             | 68C.12             | 6DC.12             | 72C.12             | 77C.12             | 7CC.12             | 81C.12             | W(12)     |     | XTAIL6      | Low Alarm Status             | Point #6 |
|    | DIGITAL          | SIW                   | 5EC.13             | 63C.13             | 68C.13             | 6DC.13             | 72C.13             | 77C.13             | 7CC.13             | 81C.13             | W(13)     |     | XTAIH7      | High Alarm Status            | Point #7 |
|    | DIGITAL          | SIW                   | 5EC.14             | 63C.14             | 68C.14             | 6DC.14             | 72C.14             | 77C.14             | 7CC.14             | 81C.14             | W(14)     |     | XTAIL7      | Low Alarm Status             | Point #7 |
|    | DIGITAL          | SIW                   | 5EC.15             | 63C.15             | 68C.15             | 6DC.15             | 72C.15             | 77C.15             | 7CC.15             | 81C.15             | W(15)     |     | XTAIH8      | High Alarm Status            | Point #8 |
|    | DIGITAL          | SIW                   | 5EC.16             | 63C.16             | 68C.16             | 6DC.16             | 72C.16             | 77C.16             | 7CC.16             | 81C.16             | W(16)     |     | XTAIL8      | Low Alarm Status             | Point #8 |
| 45 | REAL             | SIN                   | 5ED                | 63D                | 68D                | 6DD                | 72D                | 77D                | 7CD                | 81D                | N         | R   | XTAI1       | Analog Input Value #1        |          |
| 46 | REAL             | SIN                   | 5EE                | 63E                | 68E                | 6DE                | 72E                | 77E                | 7CE                | 81E                | N         | R   | XTAI2       | Analog Input Value #2        |          |
| 47 | REAL             | SIN                   | 5EF                | 63F                | 68F                | 6DF                | 72F                | 77F                | 7CF                | 81F                | N         | R   | XTAI3       | Analog Input Value #3        |          |
| 48 | REAL             | SIN                   | 5F0                | 640                | 690                | 6E0                | 730                | 780                | 7D0                | 820                | N         | R   | XTAI4       | Analog Input Value #4        |          |
| 49 | REAL             | SIN                   | 5F1                | 641                | 691                | 6E1                | 731                | 781                | 7D1                | 821                | N         | R   | XTAI5       | Analog Input Value #5        |          |
| 50 | REAL             | SIN                   | 5F2                | 642                | 692                | 6E2                | 732                | 782                | 7D2                | 822                | N         | R   | XTAI6       | Analog Input Value #6        |          |
| 51 | REAL             | SIN                   | 5F3                | 643                | 693                | 6E3                | 733                | 783                | 7D3                | 823                | N         | R   | XTAI7       | Analog Input Value #7        |          |
| 52 | REAL             | SIN                   | 5F4                | 644                | 694                | 6E4                | 734                | 784                | 7D4                | 824                | N         | R   | XTAI8       | Analog Input Value #8        |          |
| 53 | REAL             | SIN                   | 5F5                | 645                | 695                | 6E5                | 735                | 785                | 7D5                | 825                | N         | W   | XTAO1       | Analog Output Value          | Point #1 |
| 54 | REAL             | SIN                   | 5F6                | 646                | 696                | 6E6                | 736                | 786                | 7D6                | 826                | N         | W   | XTAO2       | Analog Output Value          | Point #2 |
| 55 | REAL             | SIN                   | 5F7                | 647                | 697                | 6E7                | 737                | 787                | 7D7                | 827                | N         | W   | XTAO3       | Analog Output Value          | Point #3 |
| 56 | REAL             | SIN                   | 5F8                | 648                | 698                | 6E8                | 738                | 788                | 7D8                | 828                | N         | W   | XTAO4       | Analog Output Value          | Point #4 |
| 57 | REAL             | SIN                   | 5F9                | 649                | 699                | 6E9                | 739                | 789                | 7D9                | 829                | N         | W   | XTAO5       | Analog Output Value          | Point #5 |
| 58 | REAL             | SIN                   | 5FA                | 64A                | 69A                | 6EA                | 73A                | 78A                | 7DA                | 82A                | N         | W   | XTAO6       | Analog Output Value          | Point #6 |
| 59 | REAL             | SIN                   | 5FB                | 64B                | 69B                | 6EB                | 73B                | 78B                | 7DB                | 82B                | N         | W   | XTAO7       | Analog Output Value          | Point #7 |
| 60 | REAL             | SIN                   | 5FC                | 64C                | 69C                | 6EC                | 73C                | 78C                | 7DC                | 82C                | N         | W   | XTAO8       | Analog Output Value          | Point #8 |
| 61 | LONG             | SIL                   | 5FD                | 64D                | 69D                | 6ED                | 73D                | 78D                | 7DD                | 82D                | L         | W   | XTCNT1      | Digital Input #1 Pulse Count |          |
| 62 | LONG             | SIL                   | 5FE                | 64E                | 69E                | 6EE                | 73E                | 78E                | 7DE                | 82E                | L         | W   | XTCNT2      | Digital Input #2 Pulse Count |          |
| 63 | LONG             | SIL                   | 5FF                | 64F                | 69F                | 6EF                | 73F                | 78F                | 7DF                | 82F                | L         | W   | XTCNT3      | Digital Input #3 Pulse Count |          |
| 64 | LONG             | SIL                   | 600                | 650                | 6A0                | 6F0                | 740                | 790                | 7E0                | 830                | L         | W   | XTCNT4      | Digital Input #4 Pulse Count |          |
| 65 | LONG             | SIL                   | 601                | 651                | 6A1                | 6F1                | 741                | 791                | 7E1                | 831                | L         | W   | XTCNT5      | Digital Input #5 Pulse Count |          |
| 66 | LONG             | SIL                   | 602                | 652                | 6A2                | 6F2                | 742                | 792                | 7E2                | 832                | L         | W   | XTCNT6      | Digital Input #6 Pulse Count |          |

| RI | Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>XT1 | Citect<br>Address<br>XT2 | Citect<br>Address<br>XT3 | Citect<br>Address<br>XT4 | Citect<br>Address<br>XT5 | Citect<br>Address<br>XT6 | Citect<br>Address<br>XT7 | Citect<br>Address<br>XT8 | Item<br>Type | R/W | Johnson<br>Tag | Description                    |
|----|------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|-----|----------------|--------------------------------|
| 67 | LONG                   | SIL                         | 603                      | 653                      | 6A3                      | 6F3                      | 743                      | 793                      | 7E3                      | 833                      | L            | W   | XTCNT7         | Digital Input #7 Pulse Count   |
| 68 | LONG                   | SIL                         | 604                      | 654                      | 6A4                      | 6F4                      | 744                      | 794                      | 7E4                      | 834                      | L            | W   | XTCNT8         | Digital Input #8 Pulse Count   |
| 69 | BYTE                   | SIB                         | 605                      | 655                      | 6A5                      | 6F5                      | 745                      | 795                      | 7E5                      | 835                      | B            | W   | XTHDC          | Extension Module Hold Control  |
|    | DIGITAL                | SIB                         | 605.1                    | 655.1                    | 6A5.1                    | 6F5.1                    | 745.1                    | 795.1                    | 7E5.1                    | 835.1                    | B(1)         |     | XTOUH1         | Output #1 in Hold              |
|    | DIGITAL                | SIB                         | 605.2                    | 655.2                    | 6A5.2                    | 6F5.2                    | 745.2                    | 795.2                    | 7E5.2                    | 835.2                    | B(2)         |     | XTOUH2         | Output #2 in Hold              |
|    | DIGITAL                | SIB                         | 605.3                    | 655.3                    | 6A5.3                    | 6F5.3                    | 745.3                    | 795.3                    | 7E5.3                    | 835.3                    | B(3)         |     | XTOUH3         | Output #3 in Hold              |
|    | DIGITAL                | SIB                         | 605.4                    | 655.4                    | 6A5.4                    | 6F5.4                    | 745.4                    | 795.4                    | 7E5.4                    | 835.4                    | B(4)         |     | XTOUH4         | Output #4 in Hold              |
|    | DIGITAL                | SIB                         | 605.5                    | 655.5                    | 6A5.5                    | 6F5.5                    | 745.5                    | 795.5                    | 7E5.5                    | 835.5                    | B(5)         |     | XTOUH5         | Output #5 in Hold              |
|    | DIGITAL                | SIB                         | 605.6                    | 655.6                    | 6A5.6                    | 6F5.6                    | 745.6                    | 795.6                    | 7E5.6                    | 835.6                    | B(6)         |     | XTOUH6         | Output #6 in Hold              |
|    | DIGITAL                | SIB                         | 605.7                    | 655.7                    | 6A5.7                    | 6F5.7                    | 745.7                    | 795.7                    | 7E5.7                    | 835.7                    | B(7)         |     | XTOUH7         | Output #7 in Hold              |
|    | DIGITAL                | SIB                         | 605.8                    | 655.8                    | 6A5.8                    | 6F5.8                    | 745.8                    | 795.8                    | 7E5.8                    | 835.8                    | B(8)         |     | XTOUH8         | Output #8 in Hold              |
| 70 | BYTE                   | SIB                         | 606                      | 656                      | 6A6                      | 6F6                      | 746                      | 796                      | 7E6                      | 836                      | B            | W   | XTDO           | Logic Outputs Control & Status |
|    | DIGITAL                | SIB                         | 606.1                    | 656.1                    | 6A6.1                    | 6F6.1                    | 746.1                    | 796.1                    | 7E6.1                    | 836.1                    | B(1)         |     | XTDO1          | DO #1                          |
|    | DIGITAL                | SIB                         | 606.2                    | 656.2                    | 6A6.2                    | 6F6.2                    | 746.2                    | 796.2                    | 7E6.2                    | 836.2                    | B(2)         |     | XTDO2          | DO #2                          |
|    | DIGITAL                | SIB                         | 606.3                    | 656.3                    | 6A6.3                    | 6F6.3                    | 746.3                    | 796.3                    | 7E6.3                    | 836.3                    | B(3)         |     | XTDO3          | DO #3                          |
|    | DIGITAL                | SIB                         | 606.4                    | 656.4                    | 6A6.4                    | 6F6.4                    | 746.4                    | 796.4                    | 7E6.4                    | 836.4                    | B(4)         |     | XTDO4          | DO #4                          |
|    | DIGITAL                | SIB                         | 606.5                    | 656.5                    | 6A6.5                    | 6F6.5                    | 746.5                    | 796.5                    | 7E6.5                    | 836.5                    | B(5)         |     | XTDO5          | DO #5                          |
|    | DIGITAL                | SIB                         | 606.6                    | 656.6                    | 6A6.6                    | 6F6.6                    | 746.6                    | 796.6                    | 7E6.6                    | 836.6                    | B(6)         |     | XTDO6          | DO #6                          |
|    | DIGITAL                | SIB                         | 606.7                    | 656.7                    | 6A6.7                    | 6F6.7                    | 746.7                    | 796.7                    | 7E6.7                    | 836.7                    | B(7)         |     | XTDO7          | DO #7                          |
|    | DIGITAL                | SIB                         | 606.8                    | 656.8                    | 6A6.8                    | 6F6.8                    | 746.8                    | 796.8                    | 7E6.8                    | 836.8                    | B(8)         |     | XTDO8          | DO #8                          |
| 71 | BYTE                   | SIB                         | 607                      | 657                      | 6A7                      | 6F7                      | 747                      | 797                      | 7E7                      | 837                      | B            | R   | XTDI           | Logic Inputs Status            |
|    | DIGITAL                | SIB                         | 607.1                    | 657.1                    | 6A7.1                    | 6F7.1                    | 747.1                    | 797.1                    | 7E7.1                    | 837.1                    | B(1)         |     | XTDI1          | DI #1                          |
|    | DIGITAL                | SIB                         | 607.2                    | 657.2                    | 6A7.2                    | 6F7.2                    | 747.2                    | 797.2                    | 7E7.2                    | 837.2                    | B(2)         |     | XTDI2          | DI #2                          |
|    | DIGITAL                | SIB                         | 607.3                    | 657.3                    | 6A7.3                    | 6F7.3                    | 747.3                    | 797.3                    | 7E7.3                    | 837.3                    | B(3)         |     | XTDI3          | DI #3                          |
|    | DIGITAL                | SIB                         | 607.4                    | 657.4                    | 6A7.4                    | 6F7.4                    | 747.4                    | 797.4                    | 7E7.4                    | 837.4                    | B(4)         |     | XTDI4          | DI #4                          |
|    | DIGITAL                | SIB                         | 607.5                    | 657.5                    | 6A7.5                    | 6F7.5                    | 747.5                    | 797.5                    | 7E7.5                    | 837.5                    | B(5)         |     | XTDI5          | DI #5                          |
|    | DIGITAL                | SIB                         | 607.6                    | 657.6                    | 6A7.6                    | 6F7.6                    | 747.6                    | 797.6                    | 7E7.6                    | 837.6                    | B(6)         |     | XTDI6          | DI #6                          |
|    | DIGITAL                | SIB                         | 607.7                    | 657.7                    | 6A7.7                    | 6F7.7                    | 747.7                    | 797.7                    | 7E7.7                    | 837.7                    | B(7)         |     | XTDI7          | DI #7                          |
|    | DIGITAL                | SIB                         | 607.8                    | 657.8                    | 6A7.8                    | 6F7.8                    | 747.8                    | 797.8                    | 7E7.8                    | 837.8                    | B(8)         |     | XTDI8          | DI #8                          |
| 72 | BYTE                   | SIB                         | 608                      | 658                      | 6A8                      | 6F8                      | 748                      | 798                      | 7E8                      | 838                      | B            | R   | XTST           | Extension Module Local Status  |
|    | DIGITAL                | SIB                         | 608.1                    | 658.1                    | 6A8.1                    | 6F8.1                    | 748.1                    | 798.1                    | 7E8.1                    | 838.1                    | B(1)         |     | XTCOM          | Module not answering           |
|    | DIGITAL                | SIB                         | 608.2                    | 658.2                    | 6A8.2                    | 6F8.2                    | 748.2                    | 798.2                    | 7E8.2                    | 838.2                    | B(2)         |     |                | spare                          |
|    | DIGITAL                | SIB                         | 608.3                    | 658.3                    | 6A8.3                    | 6F8.3                    | 748.3                    | 798.3                    | 7E8.3                    | 838.3                    | B(3)         |     | XTMIS          | XT Type not matching           |
|    | DIGITAL                | SIB                         | 608.4                    | 658.4                    | 6A8.4                    | 6F8.4                    | 748.4                    | 798.4                    | 7E8.4                    | 838.4                    | B(4)         |     | XTHARD         | XT Hardware Failure            |
|    | DIGITAL                | SIB                         | 608.5                    | 658.5                    | 6A8.5                    | 6F8.5                    | 748.5                    | 798.5                    | 7E8.5                    | 838.5                    | B(5)         |     | XTSEL          | XT Selected on Extension Link  |

| RI | Citect Data Type | Citect Address Prefix | Citect Address XT1 | Citect Address XT2 | Citect Address XT3 | Citect Address XT4 | Citect Address XT5 | Citect Address XT6 | Citect Address XT7 | Citect Address XT8 | Item Type | R/W | Johnson Tag | Description                |
|----|------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------|-----|-------------|----------------------------|
|    | DIGITAL          | SIB                   | 608.6              | 658.6              | 6A8.6              | 6F8.6              | 748.6              | 798.6              | 7E8.6              | 838.6              | B(6)      |     | XTERR       | OR of XT errors            |
|    | DIGITAL          | SIB                   | 608.7              | 658.7              | 6A8.7              | 6F8.7              | 748.7              | 798.7              | 7E8.7              | 838.7              | B(7)      |     | XTFAIL      | XT Fail Mode               |
|    | DIGITAL          | SIB                   | 608.8              | 658.8              | 6A8.8              | 6F8.8              | 748.8              | 798.8              | 7E8.8              | 838.8              | B(8)      |     | XTPWR       | Loss of Power in XT module |

## REAL TIME CLOCK MODULE

| Citect Data Type | Citect Address Prefix | Citect Address (Item) | Format | Byte 0       | Range        |
|------------------|-----------------------|-----------------------|--------|--------------|--------------|
| BCD              | RTC                   | 0                     | BCD    | Century      | 19-20        |
| BCD              | RTC                   | 1                     | BCD    | Year         | 00-35, 90-99 |
| BCD              | RTC                   | 2                     | BCD    | month        | 01-12        |
| BCD              | RTC                   | 3                     | BCD    | day of month | 01-31        |
| BCD              | RTC                   | 4                     | BCD    | day of week  | 00-06        |
| BCD              | RTC                   | 5                     | BCD    | hours        | 00-23        |
| BCD              | RTC                   | 6                     | BCD    | minutes      | 00-59        |
| BCD              | RTC                   | 7                     | BCD    | seconds      | 00-59        |

## DAYLIGHT SAVING MODULE

| Citect Data Type | Citect Address Prefix | Citect Address (Item) | Format | Byte 0 | Byte 1 | Range      |
|------------------|-----------------------|-----------------------|--------|--------|--------|------------|
| BCD              | DS                    | 0                     | BCD    | Day    | Month  | Start Date |
| BCD              | DS                    | 1                     | BCD    | Day    | Month  | End Date   |



## EXCEPTION DAYS MODULE

| Citect<br>Data<br>Type | Citect<br>Address<br>Prefix | Citect<br>Address<br>(Item) | Format | Byte 0 | Byte 1 | Range          |
|------------------------|-----------------------------|-----------------------------|--------|--------|--------|----------------|
| BCD                    | ED                          | 0                           | BCD    | Day    | Month  | Start Date #01 |
| BCD                    | ED                          | 1                           | BCD    | Day    | Month  | End Date #01   |
| BCD                    | ED                          | 2                           | BCD    | Day    | Month  | Start Date #02 |
| BCD                    | ED                          | 3                           | BCD    | Day    | Month  | End Date #02   |
| BCD                    | ED                          | 4                           | BCD    | Day    | Month  | Start Date #03 |
| BCD                    | ED                          | 5                           | BCD    | Day    | Month  | End Date #03   |
| BCD                    | ED                          | 6                           | BCD    | Day    | Month  | Start Date #04 |
| BCD                    | ED                          | 7                           | BCD    | Day    | Month  | End Date #04   |
| BCD                    | ED                          | 8                           | BCD    | Day    | Month  | Start Date #05 |
| BCD                    | ED                          | 9                           | BCD    | Day    | Month  | End Date #05   |
| BCD                    | ED                          | A                           | BCD    | Day    | Month  | Start Date #06 |
| BCD                    | ED                          | B                           | BCD    | Day    | Month  | End Date #06   |
| BCD                    | ED                          | C                           | BCD    | Day    | Month  | Start Date #07 |
| BCD                    | ED                          | D                           | BCD    | Day    | Month  | End Date #07   |
| BCD                    | ED                          | E                           | BCD    | Day    | Month  | Start Date #08 |
| BCD                    | ED                          | F                           | BCD    | Day    | Month  | End Date #08   |
| BCD                    | ED                          | 10                          | BCD    | Day    | Month  | Start Date #09 |
| BCD                    | ED                          | 11                          | BCD    | Day    | Month  | End Date #09   |
| BCD                    | ED                          | 12                          | BCD    | Day    | Month  | Start Date #10 |
| BCD                    | ED                          | 13                          | BCD    | Day    | Month  | End Date #10   |
| BCD                    | ED                          | 14                          | BCD    | Day    | Month  | Start Date #11 |
| BCD                    | ED                          | 15                          | BCD    | Day    | Month  | End Date #11   |
| BCD                    | ED                          | 16                          | BCD    | Day    | Month  | Start Date #12 |
| BCD                    | ED                          | 17                          | BCD    | Day    | Month  | End Date #12   |
| BCD                    | ED                          | 18                          | BCD    | Day    | Month  | Start Date #13 |
| BCD                    | ED                          | 19                          | BCD    | Day    | Month  | End Date #13   |
| BCD                    | ED                          | 1A                          | BCD    | Day    | Month  | Start Date #14 |
| BCD                    | ED                          | 1B                          | BCD    | Day    | Month  | End Date #14   |
| BCD                    | ED                          | 1C                          | BCD    | Day    | Month  | Start Date #15 |
| BCD                    | ED                          | 1D                          | BCD    | Day    | Month  | End Date #15   |
| BCD                    | ED                          | 1E                          | BCD    | Day    | Month  | Start Date #16 |
| BCD                    | ED                          | 1F                          | BCD    | Day    | Month  | End Date #16   |
| BCD                    | ED                          | 20                          | BCD    | Day    | Month  | Start Date #17 |
| BCD                    | ED                          | 21                          | BCD    | Day    | Month  | End Date #17   |
| BCD                    | ED                          | 22                          | BCD    | Day    | Month  | Start Date #18 |
| BCD                    | ED                          | 23                          | BCD    | Day    | Month  | End Date #18   |

| Citect Data Type | Citect Address Prefix | Citect Address (Item) | Format | Byte 0 | Byte 1 | Range          |
|------------------|-----------------------|-----------------------|--------|--------|--------|----------------|
| BCD              | ED                    | 24                    | BCD    | Day    | Month  | Start Date #19 |
| BCD              | ED                    | 25                    | BCD    | Day    | Month  | End Date #19   |
| BCD              | ED                    | 26                    | BCD    | Day    | Month  | Start Date #20 |
| BCD              | ED                    | 27                    | BCD    | Day    | Month  | End Date #20   |
| BCD              | ED                    | 28                    | BCD    | Day    | Month  | Start Date #21 |
| BCD              | ED                    | 29                    | BCD    | Day    | Month  | End Date #21   |
| BCD              | ED                    | 2A                    | BCD    | Day    | Month  | Start Date #22 |
| BCD              | ED                    | 2B                    | BCD    | Day    | Month  | End Date #22   |
| BCD              | ED                    | 2C                    | BCD    | Day    | Month  | Start Date #23 |
| BCD              | ED                    | 2D                    | BCD    | Day    | Month  | End Date #23   |
| BCD              | ED                    | 2E                    | BCD    | Day    | Month  | Start Date #24 |
| BCD              | ED                    | 2F                    | BCD    | Day    | Month  | End Date #24   |
| BCD              | ED                    | 30                    | BCD    | Day    | Month  | Start Date #25 |
| BCD              | ED                    | 31                    | BCD    | Day    | Month  | End Date #25   |
| BCD              | ED                    | 32                    | BCD    | Day    | Month  | Start Date #26 |
| BCD              | ED                    | 33                    | BCD    | Day    | Month  | End Date #26   |
| BCD              | ED                    | 34                    | BCD    | Day    | Month  | Start Date #27 |
| BCD              | ED                    | 35                    | BCD    | Day    | Month  | End Date #27   |
| BCD              | ED                    | 36                    | BCD    | Day    | Month  | Start Date #28 |
| BCD              | ED                    | 37                    | BCD    | Day    | Month  | End Date #28   |
| BCD              | ED                    | 38                    | BCD    | Day    | Month  | Start Date #29 |
| BCD              | ED                    | 39                    | BCD    | Day    | Month  | End Date #29   |
| BCD              | ED                    | 3A                    | BCD    | Day    | Month  | Start Date #30 |
| BCD              | ED                    | 3B                    | BCD    | Day    | Month  | End Date #30   |

## TIME SCHEDULE MODULE

| Citect Data Type | Citect Address Prefix | Item | Citect Address TS1 | Citect Address TS2 | Citect Address TS3 | Citect Address TS4 | Citect Address TS5 | Citect Address TS6 | Citect Address TS7 | Citect Address TS8 | Format   | Byte 0 | Byte 1 | Description                                                           |
|------------------|-----------------------|------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|--------|--------|-----------------------------------------------------------------------|
| UINT             | TS                    | 0    | TS0.0              | TS1.0              | TS2.0              | TS3.0              | TS4.0              | TS5.0              | TS6.0              | TS7.0              | HEX WORD |        |        | Time Schedule Options<br>0=Logic Output Type<br>1=Numeric Output Type |
| UINT             | TS                    | 1    | TS0.1              | TS1.1              | TS2.1              | TS3.1              | TS4.1              | TS5.1              | TS6.1              | TS7.1              | HEX WORD |        |        | External Extension logical connection                                 |
| UINT             | TS                    | 2    | TS0.2              | TS1.2              | TS2.2              | TS3.2              | TS4.2              | TS5.2              | TS6.2              | TS7.2              | HEX WORD |        |        | On forcing logical connection                                         |
| UINT             | TS                    | 3    | TS0.3              | TS1.3              | TS2.3              | TS3.3              | TS4.3              | TS5.3              | TS6.3              | TS7.3              | HEX WORD |        |        | Off forcing logical connection                                        |
| UINT             | TS                    | 4    | TS0.4              | TS1.4              | TS2.4              | TS3.4              | TS4.4              | TS5.4              | TS6.4              | TS7.4              | HEX WORD |        |        | Extension time (min)                                                  |
| BCD              | TS                    | 5    | TS0.5              | TS1.5              | TS2.5              | TS3.5              | TS4.5              | TS5.5              | TS6.5              | TS7.5              | BCD      | Minute | Hour   | Start Time #01                                                        |
| BCD              | TS                    | 6    | TS0.6              | TS1.6              | TS2.6              | TS3.6              | TS4.6              | TS5.6              | TS6.6              | TS7.6              | BCD      | Minute | Hour   | End Time #01                                                          |
| UINT             | TS                    | 7    | TS0.7              | TS1.7              | TS2.7              | TS3.7              | TS4.7              | TS5.7              | TS6.7              | TS7.7              | HEX WORD | Days   | 00     | Enable Days #01                                                       |
| BCD              | TS                    | 8    | TS0.8              | TS1.8              | TS2.8              | TS3.8              | TS4.8              | TS5.8              | TS6.8              | TS7.8              | BCD      | Minute | Hour   | Start Time #02                                                        |
| BCD              | TS                    | 9    | TS0.9              | TS1.9              | TS2.9              | TS3.9              | TS4.9              | TS5.9              | TS6.9              | TS7.9              | BCD      | Minute | Hour   | End Time #02                                                          |
| UINT             | TS                    | A    | TS0.A              | TS1.A              | TS2.A              | TS3.A              | TS4.A              | TS5.A              | TS6.A              | TS7.A              | HEX WORD | Days   | 00     | Enable Days #02                                                       |
| BCD              | TS                    | B    | TS0.B              | TS1.B              | TS2.B              | TS3.B              | TS4.B              | TS5.B              | TS6.B              | TS7.B              | BCD      | Minute | Hour   | Start Time #03                                                        |
| BCD              | TS                    | C    | TS0.C              | TS1.C              | TS2.C              | TS3.C              | TS4.C              | TS5.C              | TS6.C              | TS7.C              | BCD      | Minute | Hour   | End Time #03                                                          |
| UINT             | TS                    | D    | TS0.D              | TS1.D              | TS2.D              | TS3.D              | TS4.D              | TS5.D              | TS6.D              | TS7.D              | HEX WORD | Days   | 00     | Enable Days #03                                                       |
| BCD              | TS                    | E    | TS0.E              | TS1.E              | TS2.E              | TS3.E              | TS4.E              | TS5.E              | TS6.E              | TS7.E              | BCD      | Minute | Hour   | Start Time #04                                                        |
| BCD              | TS                    | F    | TS0.F              | TS1.F              | TS2.F              | TS3.F              | TS4.F              | TS5.F              | TS6.F              | TS7.F              | BCD      | Minute | Hour   | End Time #04                                                          |
| UINT             | TS                    | 10   | TS0.10             | TS1.10             | TS2.10             | TS3.10             | TS4.10             | TS5.10             | TS6.10             | TS7.10             | HEX WORD | Days   | 00     | Enable Days #04                                                       |
| BCD              | TS                    | 11   | TS0.11             | TS1.11             | TS2.11             | TS3.11             | TS4.11             | TS5.11             | TS6.11             | TS7.11             | BCD      | Minute | Hour   | Start Time #05                                                        |
| BCD              | TS                    | 12   | TS0.12             | TS1.12             | TS2.12             | TS3.12             | TS4.12             | TS5.12             | TS6.12             | TS7.12             | BCD      | Minute | Hour   | End Time #05                                                          |
| UINT             | TS                    | 13   | TS0.13             | TS1.13             | TS2.13             | TS3.13             | TS4.13             | TS5.13             | TS6.13             | TS7.13             | HEX WORD | Days   | 00     | Enable Days #05                                                       |
| BCD              | TS                    | 14   | TS0.14             | TS1.14             | TS2.14             | TS3.14             | TS4.14             | TS5.14             | TS6.14             | TS7.14             | BCD      | Minute | Hour   | Start Time #06                                                        |
| BCD              | TS                    | 15   | TS0.15             | TS1.15             | TS2.15             | TS3.15             | TS4.15             | TS5.15             | TS6.15             | TS7.15             | BCD      | Minute | Hour   | End Time #06                                                          |
| UINT             | TS                    | 16   | TS0.16             | TS1.16             | TS2.16             | TS3.16             | TS4.16             | TS5.16             | TS6.16             | TS7.16             | HEX WORD | Days   | 00     | Enable Days #06                                                       |
| BCD              | TS                    | 17   | TS0.17             | TS1.17             | TS2.17             | TS3.17             | TS4.17             | TS5.17             | TS6.17             | TS7.17             | BCD      | Minute | Hour   | Start Time #07                                                        |
| BCD              | TS                    | 18   | TS0.18             | TS1.18             | TS2.18             | TS3.18             | TS4.18             | TS5.18             | TS6.18             | TS7.18             | BCD      | Minute | Hour   | End Time #07                                                          |
| UINT             | TS                    | 19   | TS0.19             | TS1.19             | TS2.19             | TS3.19             | TS4.19             | TS5.19             | TS6.19             | TS7.19             | HEX WORD | Days   | 00     | Enable Days #07                                                       |
| BCD              | TS                    | 1A   | TS0.1A             | TS1.1A             | TS2.1A             | TS3.1A             | TS4.1A             | TS5.1A             | TS6.1A             | TS7.1A             | BCD      | Minute | Hour   | Start Time #08                                                        |
| BCD              | TS                    | 1B   | TS0.1B             | TS1.1B             | TS2.1B             | TS3.1B             | TS4.1B             | TS5.1B             | TS6.1B             | TS7.1B             | BCD      | Minute | Hour   | End Time #08                                                          |
| UINT             | TS                    | 1C   | TS0.1C             | TS1.1C             | TS2.1C             | TS3.1C             | TS4.1C             | TS5.1C             | TS6.1C             | TS7.1C             | HEX WORD | Days   | 00     | Enable Days #08                                                       |