

# NR500 Series Industrial Cellular VPN Router

## Application Note 023

### Digital Output Setting

**Version:** V1.0.0  
**Date:** 2018/09/21  
**Status:** Confidential



## Directory

1. Introduction.....	3
1.1 Overview.....	3
1.2 Compatibility.....	3
1.3 Version.....	3
1.4 Corrections.....	3
2. Typical Application Diagram.....	4
3. Configuration.....	5
3.1 Digital Input Configuration.....	5
3.2 Digital Output Configuration.....	5
4. Testing.....	7

# 1. Introduction

## 1.1 Overview

This document contains information regarding the configuration and use of Digital Output setting.

This guide has been written for use by technically competent personnel with a good understanding of the communications technologies used in the product, and of the requirements for their specific application.

## 1.2 Compatibility

This application note applies to:

**Models Shown:** NR500 series.

**Firmware Version:** V1.0.0(903.0) or newer

**Other Compatible Models:** None

## 1.3 Version

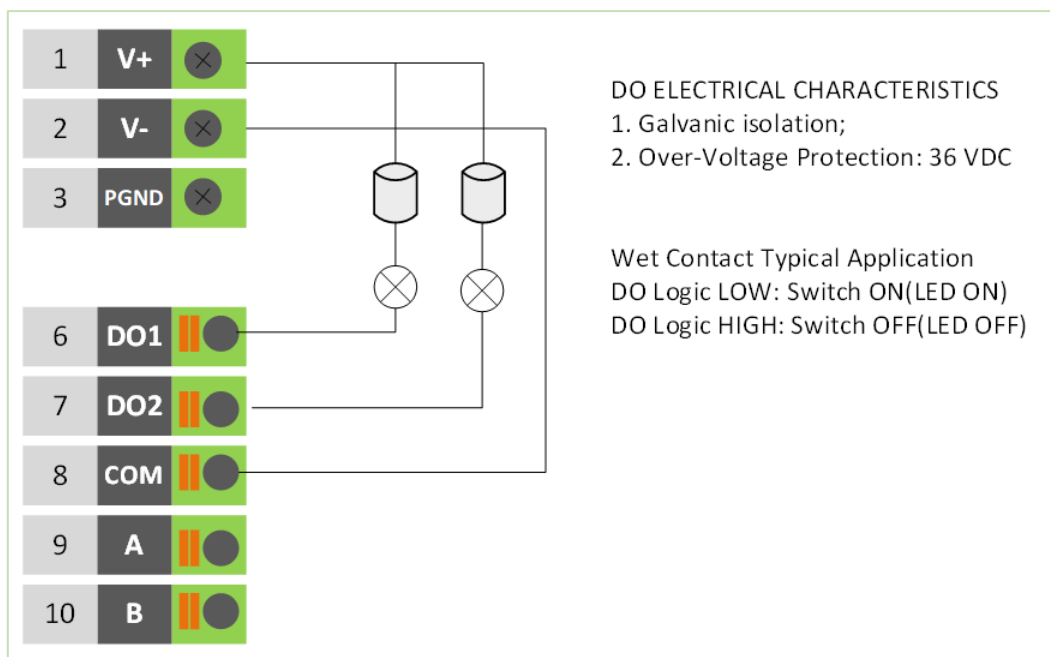
Updates between document versions are cumulative. Therefore, the latest document will include all the content of previous versions.

Release Date	Doc. Version	Firmware Version	Change Description
2018/09/21	V1.0.0	V1.0.0(903.0)	First released

## 1.4 Corrections

Appreciate for corrections or rectifications to this application note, and if any request for new application notes please email to: [support@navigateworx.com](mailto:support@navigateworx.com)

## 2. Typical Application Diagram



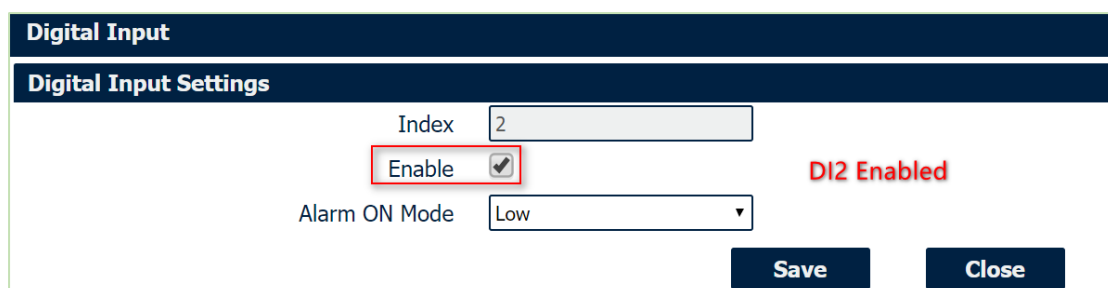
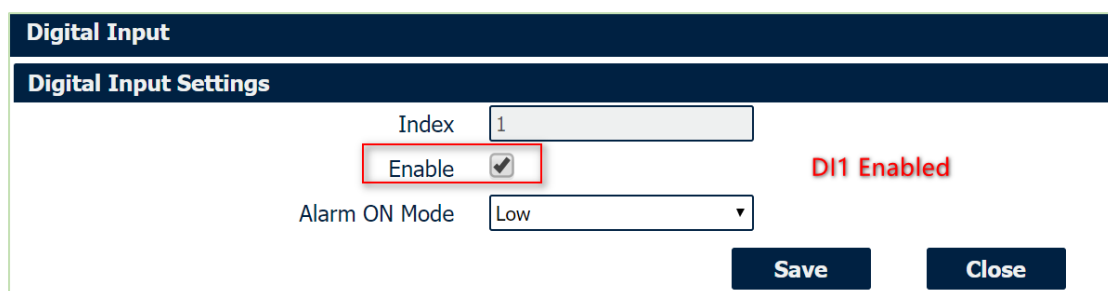
### 3. Configuration

#### 3.1 Digital Input Configuration

1. Go to **Industrial Interface>Digital IO>Digital IO>Digital Input Settings**, Click the **Edit** button of DI1 and DO2.



2. Enable DI1 and DI2, like below picture.



3. Click Save>Apply.

#### 3.2 Digital Output Configuration

1. Go to **Industrial Interface>Digital IO>Digital IO>Digital Output Settings**, Click the **Edit** button of DO1 and DO2

Status					Digital IO	
<b>Digital Input Settings</b>						
Index	Enable	Alarm ON Mode				
1	true	Low		<input checked="" type="checkbox"/>		
2	true	Low		<input checked="" type="checkbox"/>		
<b>Digital Output Settings</b>						
Index	Enable	Alarm Source	Alarm ON Action	Alarm OFF Action		
1	false	Digital Input 1	High	Low	<input checked="" type="checkbox"/>	
2	false	Digital Input 2	High	Low	<input checked="" type="checkbox"/>	

2. Enable DO1 and DO2, like below picture.

**Digital Output**

**Digital Output Settings**

Index

**Enable**

Alarm Source

Alarm ON Action

Alarm OFF Action

**Digital Output**

**Digital Output Settings**

Index

**Enable**

Alarm Source

Alarm ON Action

Alarm OFF Action

3. Click Save>Apply.

## 4. Testing

1. Go to **Industrial Interface>Digital IO>Status**, to check the default DI1, DI2, DO1 and DO2 status like below:



Status		Digital IO	
<b>Digital Input Information</b>			
Index	Enable	Logic Level	Status
1	true	High	Alarm OFF
2	true	High	Alarm OFF
<b>Digital Output Information</b>			
Index	Enable	Logic Level	Status
1	true	Low	Alarm OFF
2	true	Low	Alarm OFF

2. Switch on(short to V-) for both DI1 and DI2, DO1 and DO2 will receive the trigger signal from DI1 and DI2, the LED will become ON and the DO status like below:



Status		Digital IO	
<b>Digital Input Information</b>			
Index	Enable	Logic Level	Status
1	true	Low	Alarm ON
2	true	Low	Alarm ON
<b>Digital Output Information</b>			
Index	Enable	Logic Level	Status
1	true	High	Alarm ON
2	true	High	Alarm ON

- “Logic Level” changed from “Low” to “High”
- “Status” changed from “Alarm OFF” to “Alarm ON”

3. Test successfully.