

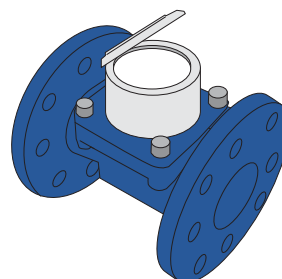
mod.

IWM-TX4

WMBUS Radio Module
for meters with inductive interface



Compatible water meters



mod. WDE-K50

The IWM-TX4 has been designed to allow wireless remote reading in different types of applications from the residential sector to the commercial and industrial sectors. The radio module thanks to the presence of the inductive target on the counter and can offer the following functions listed below and allows the reading of the counter without constraints of access to the site in walk-by mode or AMR (automatic meter reading).

The IWM-TX4 is compatible with the predisposed Woltmann, uses the WMBUS standard and is compliant with the OMS (Open metering system) specification.

- Consumption analysis with reverse flow compensation that provides an always perfect alignment between the counter and the counter clock.
- Fraud control (removal of the radio module, application of external magnetic field, reverse flow, identification of system loss). Magnetic tampering at the counter and removal are recorded and reported to the receiving system via radio transmission. The presence of reverse flow is recorded in an additional register that allows to calculate the amount of water passed in reverse. The loss function can be monitored at the time of reading or by the AMR system if a timely update is desired.
- IP68 protection* allows the use of the module also for meters installed in difficult environments.
- NFC interface allows configuration and commissioning of the device with the use of a simple smartphone app.

Radio interface	W-Mbus EN13757-4 @868 MHz ≤ 25 mW, mode T1
Coverage	500 meters*
Compatible water meters	WDE-K50-I
Pulse output minimum value (K)	DN50-125 10liters DN150-200 100liters
Configuration	Via radio (with RFM-RX2 and software B Metering), NFC (with Android app)
Battery	Non-replaceable lithium, maximum battery life 10 years**
Protection class	IP68***
Weight	200 g
Size (l x p x h)	88 x 70 x 50 mm
Working Temperature	+1° / +55°C
Transmitted data	Volume (consumption), total of backward flow, 12 monthly historical values, battery status, alarms.
Alarms	Discharged battery, module removal, magnetic fraud attempt, backward flow, leakage detection.
Module programming requirements	Android device (smartphone, tablet, etc.) with an NFC interface and the NFC IWM Config APP freely downloadable from GOOGLE PLAY

* In optimal signal transmission conditions

** The battery life strongly depends on the working time window, set during the configuration process, and on the environmental conditions

*** IP68: maximum 24 hours of continuous submersion at 1 m depth