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mod.

IWM-PL4

V3.5

Electronic pulse emitter module for Woltmann meters with inductive interface

NFC

android

Google play

PULSE



Compatible water meters
mod. WDE-K50



ENG

Description

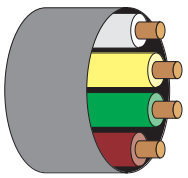
The IWM-PL4 is suitable for remote reading applications in commercial and industrial sectors, acting as an electronic pulse-emitter. It allows the acquisition of the consumption of the counter by third-party systems with a universal interface and integrating advanced counting functions and fraud detections. The use of an inductive target at the counter excludes the possibility of magnetic fraud and makes the application insensitive to the pipes vibrations.
The IWM-PL4 is compatible with all the pre-equipped Woltmann meters and allows:

- Consumption analysis (with incremental and decremental counting), reverse flow compensation can be activated for an always perfect alignment between the counter and counter clock.
- Checking frauds (cable cut and removal, application of external magnetic field, reverse flow). The presence of reverse flow can be monitored with a dedicated impulse contact.
- Dedicated dosing function available for industrial applications.
- IP68 protection* allows the use of the module also for meters installed in harsh environments.
- NFC interface allows high flexibility of configuration, allowing setting of the output pulse ratio in total autonomy through smartphone app (available ratio values: multiples of the selected index value), and being able to configure the duration of the output pulse according to the sensitivity of the acquisition system.

Technical features	
Output signal	Supply: maximum 30VDC (100mA) Type: polarized open-collector
Cable length	1.5 meters (4 conductors)
Compatible water meters	WDE-K50
Pulse output minimum value (K)	10 liters (up to DN125) or 100 liters (from DN150)
Energy supply	Non-replaceable lithium battery, maximum 10 years lifetime*
Maximum reading error	0,5%
Protection class	IP68**
Weight	160 g
Size (l x p x h, cable excluded)	100 x 100 x 25 mm
Working Temperature	from 1° to +55°C
Module programming requirements	Android device (smartphone, tablet, etc.) with an NFC interface and the BMetering NFC Config android app APP freely downloadable from GOOGLE PLAY

*Thebattery lifestrongly dependson theworking time window, set during the configuration process, and on the environmental conditions

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



+ WHITE: Pulses
+ YELLOW: Fraud wire
+ GREEN: Third wire
- BROWN: Ground

Cable information	
White	Simple counting wire, NO contact Closes every index revolution, independently from the flow direction.
Yellow	Fraud wire, NC contact, Opens at the following alarm conditions: module removal, inductive target tampering,cable cut, magnetic tampering
Green	Third wire, NO contact, it can be assigned to one of the following features: absolute counting (closes every index revolution during forward flow, with backward flow revolution compensation), backward counting (closes every revolution during back flowing), dosing (closes every XX liter, with XX freely settable)
Brown	Ground (common wire)