# EM1016 pulse RF module

## Technical description

The EM1016 pulse radio frequency (RF) transmission module is designed for collecting, storing, and transmitting consumption parameters (current, hourly, and daily) via a radio channel from water, electricity, and gas meters equipped with pulse outputs, as well as from signaling devices with digital outputs.

The module has 4 pulse/digital inputs for connecting signal sources. The EM1016 is powered by a built-in lithium battery, providing more than 10 years of uninterrupted operation.

The built-in archiving system stores current values for each input for up to 6 months and enables retrieval, upon user request via the radio channel, of data for any desired period in the form of current, hourly, or daily parameter records.

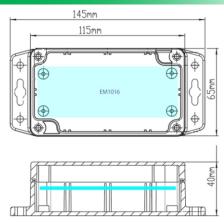


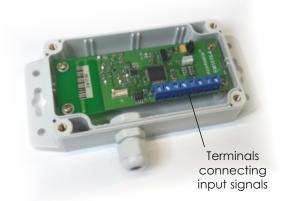
#### Technical specifications:

Description	Pulse RF unit EM1016	
Input Connection Types	4 programable indipendent inputs from meters with pulse outputs (dry contact, open colector)	
Inputs Specification	Input type – "dry contact", "open collector"; Pulse frequency – up to 128 Hz	
Box Size	145x65x40mm	
Unit Weight	150 grams	
Power Supply	1 or 2 lithium batteries, "AA" size, 3,6 VDC, 2400 mA*h	
Operational Life	more than 10 years	
Settings time intervals between transmitions	10 sec18 hours	
Maximum trend numbers of each input	storage of hourly and daily values for each input for up to 6 months	
RF frequencies (ranges)	FSK 430/860/900 MHz	
RF Transmit Bitrate	10.0 kbps	
Wakeup	Periodic – internal timer	
Configuration Storage	Non-volatile memory	
Environmental	IP-65	
Operating Temperatures	-40° C to +70° C	
Humidity	Max. 90%	



#### Main dimensions:





Innut	terminal	assianment.

IN1	Input 1
COM	Common
IN2	Input 2
COM	Common
IN3	Input 3
COM	Common
IN4	Input 4
COM	Common

Signals from metering devices with pulse outputs and from devices and equipment with discrete outputs



### Pulse RF EM-1016 module

#### Settings and data reading from the EM-1016

Programming of EM1016 settings (both general and for each individual input), as well as data and archive reading, is carried out via radio channel using the RF Terminal device (EM3011) and specialized software.



The Terminal is a transceiver equipped with a built-in or external antenna and connects to a computer or tablet via a USB cable. This device is designed for use in the WalkBy system, where it functions as a receiving module, enabling data collection from devices located in the field without the need for direct contact. Additionally, the RF Terminal is used for configuring various system devices via the radio channel. In combination with the appropriate software, the RF Terminal allows convenient remote equipment setup, significantly simplifying system maintenance processes in the field.

