



EquaScan wMIU^{RF}

Water meter radio module for automated data collection of water meters

The intelligent EquaScan water meter radio module has been developed for automated data collection from water meters in apartments. It is a component from the Itron EquaScan System and enables data to be collected quickly and securely from water consumers in a mobile and central way.

FEATURES

- » Bidirectional, year-round radio communication (WB, FN)
- » Can be refitted at any time
- » Easy to install
- » Comprehensive data protocol
- » Reliable and secure data radio transmission

Compatibility

The EquaScan water meter radio module is compatible with all Itron or Allmess apartment water meters which are equipped with a modular register.

- » Easy to install, even on previously installed meters

Secure data transmission

The bidirectional radio system transfers the data at 868 MHz. After the fixed date a brief protocol is sent every minute for 56 days. On the other days in the year this protocol is sent every five minutes. This feature enables full access to the data throughout the year. The bidirectional system also allows additional data to be specifically requested for analyses and evaluation.

Continuous data collection

The opto-electronic scan which transmits the water meter index to the communication module ensures synchronization between the meter and the radio module. Reliable consumption data is the basis for a correct invoice.

The opto-electronic scan's advantages are obvious:

- » Backflow detection
- » Tamper-proof
- » The accuracy of the meter's measurements is not affected by the module

Comprehensive data protocol

The brief protocol provides the following information:

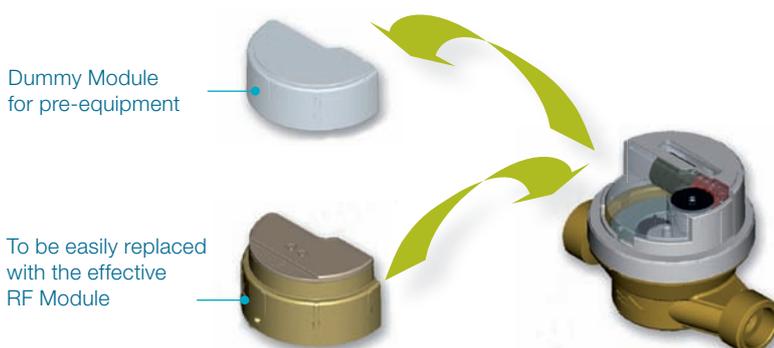
- » Current meter index
- » Fixed date value
- » Identification number
- » Configuration data
- » Error reports

Other data can be retrieved optionally

- » 18 end-of-month and mid-month indexes
- » 18 leakage warnings
- » 18 backflow reports

Innovative error management

Intelligent and innovative error management ensures the system's secure operation and the traceability of the occurred errors. This means that the consumption data can be reliably used for invoicing.



Technical data

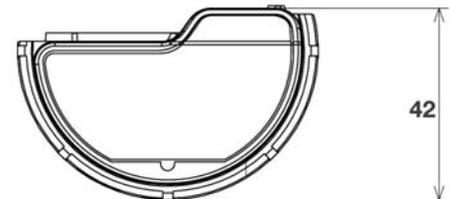
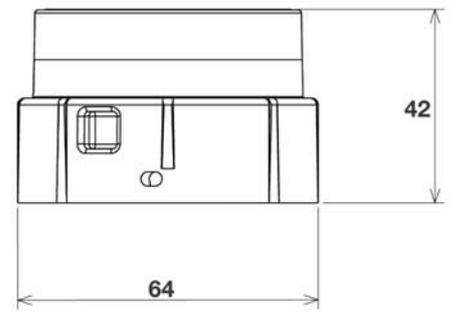
Characteristics

Register scan	Opto-electronic with dismount and backflow detection
Power supply	3V battery (lithium)
Battery life time	12 years + 1 year reserve
Operating temperature range	+5°C to +55°C
Protection class	IP 65
Data memory	15 end-of-month indexes and mid-month indexes
Parameterization	Via an inductive interface
Compatible devices	Itron / Allmess apartment water meters +m

Radio specifications

Protocol	EN 13757-3/-4 wireless M-Bus
Operating mode	C2 Mode
Frequency band	Tx 868.95 MHz Rx 869.525 MHz
Transceiver parameters	Transmitter: 4 dBm Receiver: -100 dBm

Dimensions



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