



EquaScan – wMIU

Wireless M-Bus module



Your benefits

- Year-round radio communication:
Readout without access to the premises and freely selectable reading time – interim readings during tenant change possible at any time.
- Bidirectional radio communication:
Flexible configuration changes (annual billing date) possible without access to the metering point – no coordination with tenants required.
- Comprehensive data protocol:
18 end-of-month and mid-month values available as standard for retrospective utility billing.
- Plug and play:
Time savings due to simple and fast on-site installation with automatic start-up (tool-free installation).

Applications

- Efficient readout of heat meters without access to the premises.
- Today “walk-by”, later integrable into a fixed network.

Properties

- Battery-powered wireless M-Bus radio module
- Radio transmission in the license-free 868 MHz frequency band
- Protection class IP65
- Data transmission via wireless M-Bus according to EN 13757-4
- Simple and fast on-site installation with automatic start detection
- AES128 encrypted radio protocol
- Reliable data acquisition via integrated optoelectronic scanning (tamper-proof transmission without magnetic or reed switch components)
- Migration capable (from mobile readout to fixed network readout)
- Compatible with already installed UPZ +m KOAX, UPZ +m MK, WTZ +m MK, BWZ-V +m, KOAX-FleXX +m and surface-mounted water meters UNIVERSAL EV
- Targeted retrieval of additional data for analysis and evaluation
- CE Approval

Options

- Extensive log protocol (error codes, tamper and leakage warnings, and backflow notifications)

Technical Data

Specification	EquaScan – wMIU
Meter interface	Optoelectronic with backflow and opening detection (tamper detection)
Compatible devices	UPZ +m KOAX, UPZ +m MK, WTZ +m MK, BWZ-V +m, KOAX-FleXX +m and surface-mounted water meters UNIVERSAL EV
Parameterization	Via inductive interface
Approval	CE
Protection class	IP65

Radio specifications	
Frequency band	TX: 868,95 MHz (C1) RX: 869,525 MHz (C2)
Transmission protocol	Wireless M-Bus according to EN 13757-4
Transceiver characteristics	Transmitter: 4 dBm Receiver: -100 dBm
Transmission interval	After the annual billing date, every minute for 56 days, thereafter every 5 minutes (365 days per year data reception)
Radio data	Meter number, meter reading, 2 annual billing date values, 18 mid-month values, 18 end-of-month values, error messages, configuration data

Power supply	
Battery	Lithium 3,6 V (not replaceable)
Typical lifetime	12 years (depending on environmental conditions)

Environmental conditions	
Operating temperature	+5 °C to +55 °C
Note	The use of meters and modules in areas with continuously high condensation humidity (e.g. direct shower areas or underground pits) should be avoided, as moisture may diffuse through the plastic parts over time and damage the electronics.

Dimension Diagram

