

IZAR RADIO EXTERN M-BUS

RADIO MODULE

HYDROMETER



APPLICATION

External radio module for meters with M-Bus interface. Usable for optimum reading with difficult access.

FEATURES

- ▶ Simple installation
- ▶ Transmission of real meter data by radio to mobile or stationary receivers
- ▶ For all types of meters with M-Bus interface
- ▶ On-site-programming using IrDa interface
- ▶ Battery powered with a typical lifetime of 12 years

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PRINCIPLE OF OPERATION

The IZAR RADIO EXTERNAL M-BUS consists of an electronic unit, which receives and saves meter information in the form of real data. The radio module sends the meter number, meter reading and various items of operating information every 8...16 sec. The data can be received by a mobile or static receiver.

Mobile: The IZAR POCKET pocket PC collects the data in walk-by or drive-by mode in conjunction with the HYDROMETER BLUETOOTH RECEIVER. The data for the reading route is sent direct to the central PC.

Static: A HYDROMETER RECEIVER (M-Bus, LAN, WLAN, GPRS) collects and saves the data and transfers it cyclically to a control centre (e.g. HYDRO-CENTER, Web server).

TECHNICAL DATA

| IZAR RADIO EXTERN M-BUS | |
|--------------------------------------|---|
| Versions / Frequency band | 868,95 MHz |
| Modulation | FSK |
| Transmission power | 7 mW |
| Transmission mode | Unidirectional |
| Radio range | Up to 400 m depending on ambient conditions |
| Programming interface | Optical IrDa |
| Approval in compliance with standard | EN 300220 R&TTE, EN 301489 R&TTE, EN 60950 Safety & Health, EN 61 000 EMC |
| Power supply | 2 Lithium batteries 3,6 V |
| Battery lifetime | 12 years typically |
| External power supply | AC 7.5V ... 24V, I = 10mA; DC 5V ... 24V; I = 10mA |
| Data update | Battery: once per day; External power supply: every 3 minutes |
| Sending interval | 8s ... 16s depending on telegram length |

AMBIENT CONDITIONS

| IZAR RADIO EXTERN M-BUS | |
|-------------------------|----------------|
| Operating temperature | °C -15 ... +55 |
| Storage temperature | °C -15 ... +55 |
| Humidity | % 0 ... 100 |
| Protection class | IP 68 |

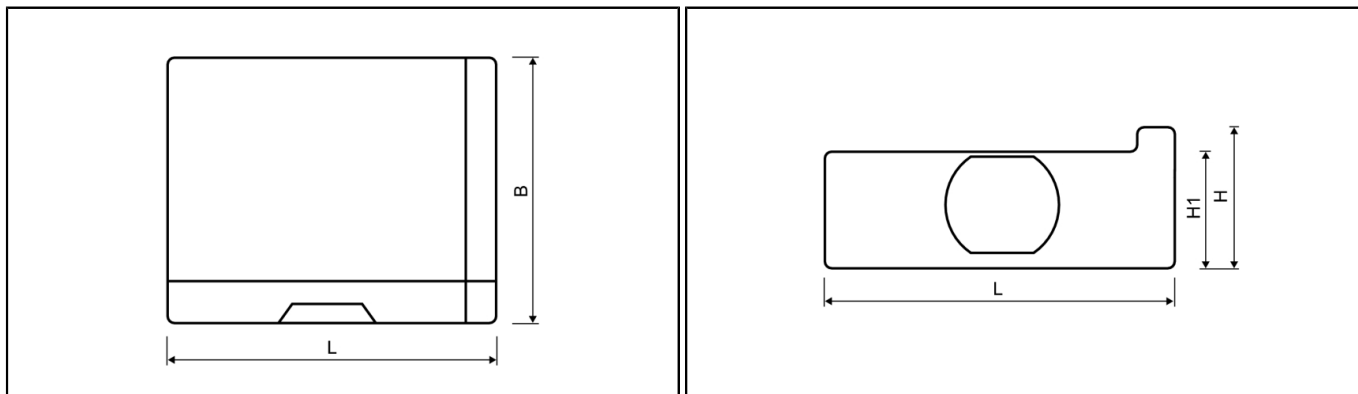
OPTICAL INTERFACE

| IZAR RADIO EXTERN M-BUS | |
|-------------------------|--------------------------|
| Programmable values | Radio on/off, meter type |

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DIMENSIONS



| IZAR RADIO EXTERN M-BUS | | | |
|-------------------------|----|----|-----|
| Length | L | mm | 104 |
| Width | B | mm | 83 |
| Height | H | mm | 42 |
| Height | H1 | mm | 34 |