

IZAR RADIO SEGMENT

RADIO MODULE

HYDROMETER



APPLICATION

Radio segment for the single-jet water meter AQUARIUS S. Usable for optimum reading with difficult access.

FEATURES

- ▶ Simple installation
- ▶ Transmission of meter data by radio to mobile or stationary receivers
- ▶ Subassembly and programming on the water meter AQUARIUS S possible ex works
- ▶ Retrofittable on site
- ▶ On-site-programming using IrDa interface
- ▶ Storage and transmission of up to three due date values
- ▶ Battery powered with a typical lifetime of 12 years

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PRINCIPLE OF OPERATION

The IZAR RADIO SEGMENT consists of an electronic unit, which receives and saves meter information in the form of pulses. The radio module sends the meter number, meter reading and various items of operating information every 128 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 walk-in mode in conjunction with the HYDROMETER BLUETOOTH RECEIVER. The data for the reading route is sent directly to the central PC.

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

TECHNICAL DATA

| 1 | |
|--------------------------------------|---------------------------------------------------------------------------|
| Versions / frequency band | 868.95 MHz or 434.475 MHz |
| Modulation | FSK |
| Transmission power | 7 mW |
| Transmission mode | Unidirectional |
| Radio range | Up to 300 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 | Lithium battery 3V |
| Battery lifetime | 12 years typically |
| Data update | Permanent |
| Sending interval | 128 s |

AMBIENT CONDITIONS

| 1 | |
|-----------------------|-------------|
| Operating temperature | °C 0 ... 40 |
| Storage temperature | °C 0 ... 40 |
| Humidity | % 0 ... 93 |
| Protection class | IP 54 |

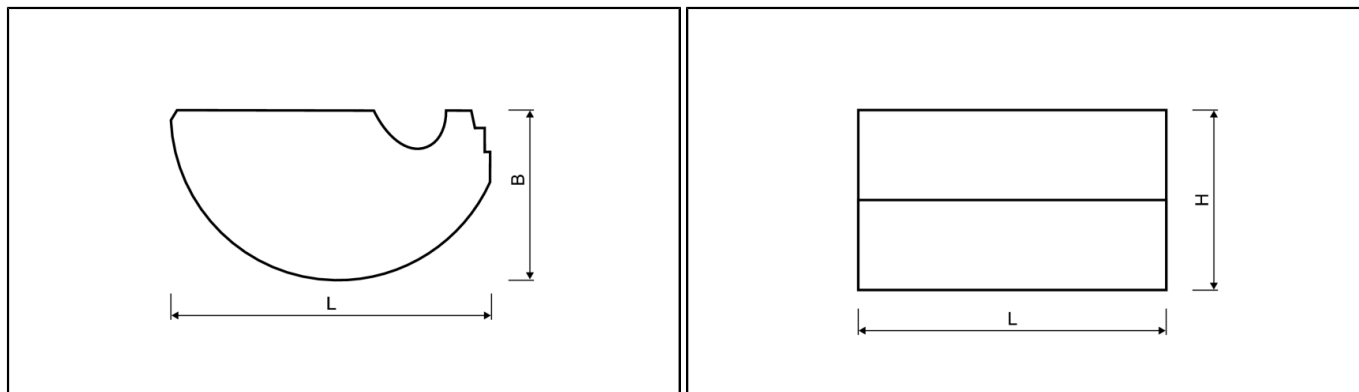
OPTICAL INTERFACE

| 1 | |
|---------------------|------------------------------------------------------------------------|
| Programmable values | Radio on/off, serial number, meter index, medium temperature, due date |
| Readable values | Remaining battery lifetime, history of 12 monthly values |

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DIMENSIONS



| | | | 1 |
|--------|---|----|----------|
| Length | L | mm | 64 |
| Width | B | mm | 38 |
| Height | H | mm | 39 |