

IZAR RADIO EXTERN AIR (PHASED OUT)

RADIO MODULE

DIEHL
Metering



APPLICATION

The IZAR RADIO EXTERN AIR can measure temperature and humidity. With its modern and inconspicuous design it is especially developed for in-house application. The hybrid and flexible sending scheme allows the operation with an IZAR RADIO mobile (WALK-BY or DRIVE-BY) and/or fixed network (wireless or wired) solution.

FEATURES

- ▶ Simple installation
- ▶ Modern and inconspicuous design
- ▶ Fast set-up without software
- ▶ Hybrid performance (for mobile reading and fixed network)
- ▶ Battery powered with a lifetime up to 10 years
- ▶ Wide temperature range for in-house application
- ▶ Accurate intervals

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RADIO MODULE

PRINCIPLE OF OPERATION

The IZAR RADIO EXTERN AIR is an electronic unit which measure humidity and temperature. The data is sent within an adjustable sending interval to a mobile or fixed network receiver (IZAR RDC, IZAR RECEIVER BT). The telegram is according to OMS specification.

Mobile: The IZAR@MOBILE 2 TABLET collects the data in walk-by or drive-by mode in conjunction with the IZAR RECEIVER BT. The data for the reading route is sent directly to the central PC.

Fixed: An IZAR RDC STANDARD or IZAR RDC PREMIUM collects and saves the data to transmit these to a central FTP server cyclically. The visualization can be done with IZAR@NET or IZAR PLUS PORTAL.

TECHNICAL DATA

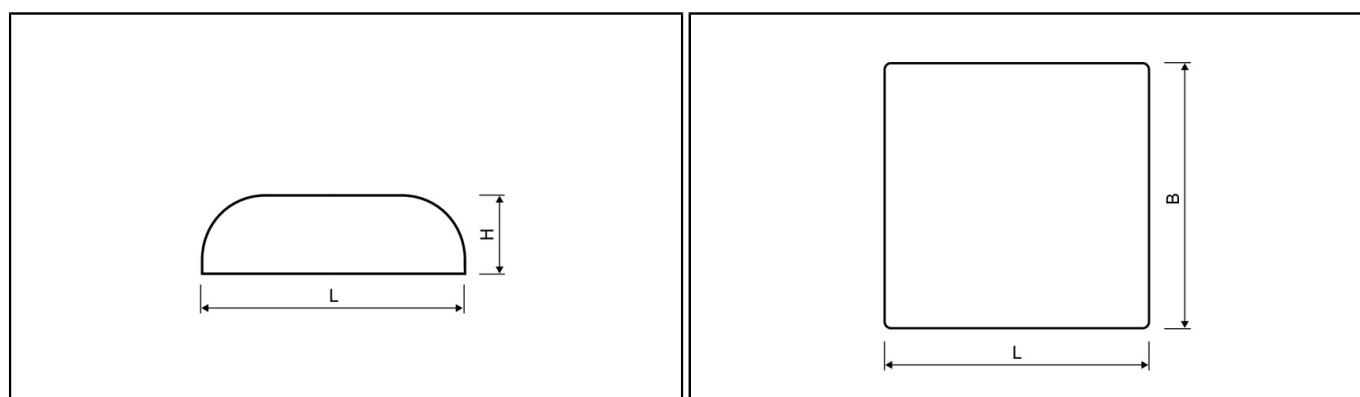
| IZAR RADIO EXTERN AIR | |
|--------------------------------------|---|
| Radio protocol | OMS 3.0.1; Encryption Mode 5 with AES128bit Encryption |
| Versions / frequency band | 868.95 MHz |
| Modulation | FSK |
| Transmission power | 10mW |
| Transmission mode | T-Mode and S-Mode |
| Radio range | Up to 600m depending on ambient conditions |
| Programming interface | DIP-switches |
| Approval in compliance with standard | EN 60950 Information technology equipment - |
| Power supply | 2xAA-batteries (replaceable) included |
| Battery lifetime | Up to 6 years (1min sending interval) Up to 12 years (15min sending interval); The lifetime depends significantly on the performance of the used battery |
| Sending interval | 1min, 5min, 10min, 15min |
| Accuracy | Typically $\pm 2\%$ in the range of 20-80%; Typically $\pm 0.3^{\circ}\text{C}$ in the range of -10°C up to 55°C |

* The lifetime depends significantly on the performances of the battery and is not guaranteed.

AMBIENT CONDITIONS

| IZAR RADIO EXTERN AIR | |
|-----------------------|------------------------------|
| Operating temperature | $^{\circ}\text{C}$ -10...+55 |
| Operating humidity | % 20...80 (non-condensing) |

DIMENSIONS



| IZAR RADIO EXTERN AIR | | | |
|-----------------------|---|----|----|
| Length | L | mm | 80 |
| Width | B | mm | 80 |
| Height | H | mm | 25 |