

# IZAR RADIO EXTERN AIR (PHASE OUT IN PROGRESS)

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

# IZAR RADIO EXTERN AIR (PHASE OUT IN PROGRESS)

## 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

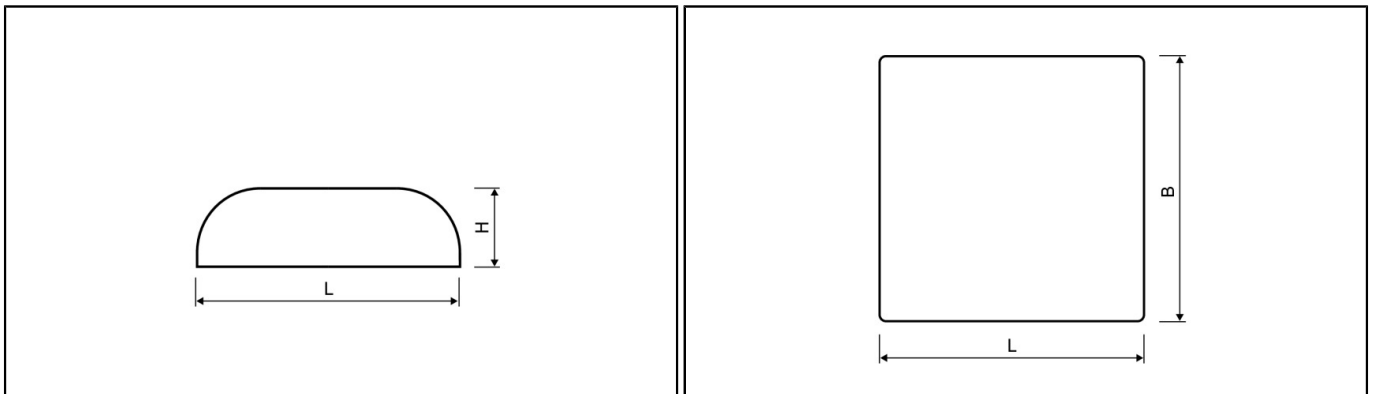
IZAR RADIO EXTERN AIR	
Radio protocol	OMS 3.0.1; Encryption Mode 5 with AES128bit Encryption
Versions / frequency band	868.95 MHz
Modulation	FSK
Transmission power	10mW
Transmission mode	T-Mode and S-Mode
Radio range	Up to 600m depending on ambient conditions
Programming interface	DIP-switches
Approval 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 $-10^{\circ}\text{C}$ up to $55^{\circ}\text{C}$

\* 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