



DIEHL Izar Radio Segment Radio Module User Manual

[Home](#) » [DIEHL](#) » DIEHL Izar Radio Segment Radio Module User Manual 

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Contents

- [1 APPLICATION](#)
- [2 FEATURES](#)
- [3 PRINCIPLE OF OPERATION](#)
- [4 TECHNICAL DATA](#)
- [5 AMBIENT CONDITIONS](#)
- [6 OPTICAL INTERFACE](#)
- [7 DIMENSIONS](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)

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
Retrofitable on site
On-site-programming using IrDa interface
Storage and transmission of up to three due date values
Battery powered with a lifetime of up to 12 years

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 MOBILE tablet collects the data in walk-by or walk-in mode in conjunction with the DIEHL BLUETOOTH RECEIVER. The data for the reading route is sent directly to the central PC.

Static: DIEHL 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

IZAR RADIO SEGMENT	
Radio protocol	Real Data
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 60950 Information technology equipment – Safety – Part 1:
Power supply	Lithium battery 3V
Lithium battery	Up to 12 years
Data update	Permanent
Sending interval	128 s
Alarm	Leakage

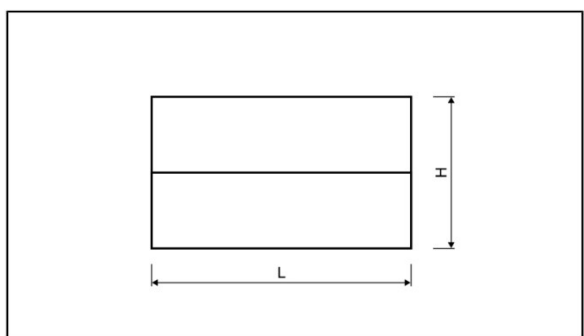
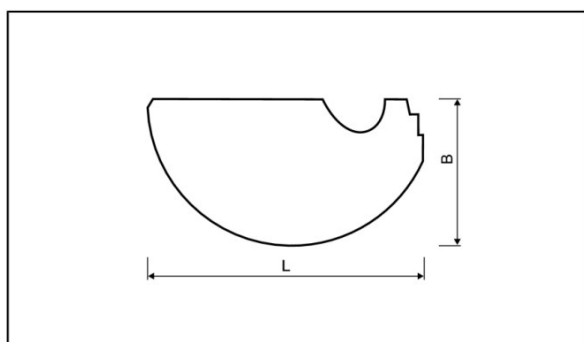
AMBIENT CONDITIONS

IZAR RADIO SEGMENT	
Operating temperature	°C 0 ... 40
Storage temperature	°C 0 ... 40
Humidity	% 0 ... 93
Protection class	IP 54

OPTICAL INTERFACE

IZAR RADIO SEGMENT	
Programmable values	Radio on/off, serial number, meter index, medium, due date
Readable values	Remaining battery lifetime, history of 12 monthly values

DIMENSIONS



IZAR RADIO SEGMENT		
Length	L	mm 64
Width	B	mm 38
Height	H	mm 39

Documents / Resources

	DIEHL Izar Radio Segment Radio Module [pdf] User Manual Izar Radio Segment Radio Module, Izar Radio, Segment Radio Module, Radio Module
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References

- [Welcome to Diehl Metering | Diehl Metering](#)