

IZAR RDC STANDARD

RADIO | RECEIVER

DIEHL
Metering



APPLICATION

The IZAR Radio Data Concentrator STANDARD is a Smart Metering transceiver of the Diehl Metering RDC product family, based on the Open Metering System Specification (OMS-S). Interoperability, data logging and remote configuration makes it a core product for future full-coverage Smart Metering roll-outs with a multi-utility approach. IZAR RDC STANDARD is designed for implementing a radio fixed network with excellent cost-effectiveness and technical specification.

FEATURES

- ▶ Collection and processing of up to 100 / 500 / 1000 radio devices
- ▶ Remote and local configuration
- ▶ Secure and flexible data export to FTP-server
- ▶ Intelligent telegram filter
- ▶ Automatic time synchronisation via Network Time Protocol (NTP)
- ▶ Downward-compatible with IZAR RADIO products
- ▶ Individual data logging (5 minutes – 24 hours)
- ▶ Receiving of meter data via 868 or 434 MHz
- ▶ Compression and encryption for data transport
- ▶ Central and individual firmware update
- ▶ Intelligent and modular installation concept

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PRINCIPLE OF OPERATION

The IZAR RDC STANDARD receives radio telegrams according to EN13757 and the Open Metering System Specification (OMS-S) independent of the measured medium. These are saved at a set logging interval using an optional device list or filter function (e.g. according to medium or manufacturer). The collected and processed data are exported fully automatic and secure in flexibly settable intervals or time points to an FTP server, where IZAR@NET or other systems can load the files for further processing. This happens automatically without the need to address each IZAR RDC STANDARD individually. A subsequent individual or higher-level configuration or a firmware update is also controlled via the central FTP server.

GENERAL

IZAR RDC STANDARD	
Version	For 100 / 500 / 1000 meters
Housing	Light grey housing with intelligent and modular installation concept
Possible display media	Independent of media
Antenna	2 internal ISM antennas or 2 external connections
Device list	Up to 100 / 500 / 1000 meters
Data logging	Individual adjustable (5 minutes – 24 hours)
LED display	2 LEDs for status display
Range of reception	Up to 1000 m outdoors or 50 m indoors

TECHNICAL DATA

IZAR RDC STANDARD	
Versions / Frequency band	868,95 MHz or 434,475 MHz (OMS, wMBUS (EN 13757-3,-4), PRIOS)
Interfaces	LAN, GPRS
Logging capacity	> 800.000 telegrams
Power supply	100 ... 230 V
Typical power consumption	W 3

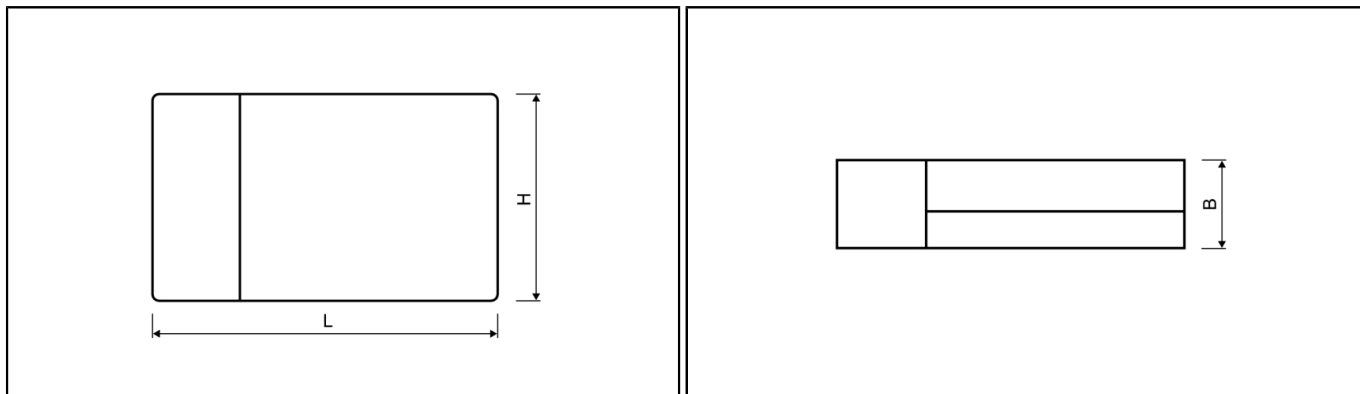
AMBIENT CONDITIONS

IZAR RDC STANDARD	
Operating temperature	°C -25 ... +65
Storage temperature	°C -30 ... +70
Protection class	IP 40
Humidity	% 10 ... 70 (non-condensing)

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DIMENSIONS



IZAR RDC STANDARD			
Length	L	mm	200
Width	B	mm	140
Height	H	mm	50