

IZAR RDC PREMIUM

RADIO | RECEIVER

DIEHL
Metering



APPLICATION

The IZAR RDC PREMIUM is the most powerful Radio Data Concentrator of the Diehl Metering RDC product family. It enables wide area fixed networks for mass data transmission and network monitoring. With a maximum of four high-performance radio receivers, state of the art embedded technology and an industrial design, made for harsh outdoor conditions, it contributes significantly to a reduction of concentrator locations and therefore to a more efficient process. A high interoperability is achieved by the conformity to Open Metering System Specifications (OMS-S).

FEATURES

- ▶ Collection and processing of up to 10,000 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
- ▶ Lockable housing, suitable for outdoor installation
- ▶ Power over Ethernet and line power in one device
- ▶ Four separate high-performance radio receiving modules

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PRINCIPLE OF OPERATION

The IZAR RDC PREMIUM receives radio telegrams according to EN13757 and the Open Metering System Specification (OMS-S) independent of the measured medium. These are saved on the basis of a 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 PREMIUM individually. Local configuration or a firmware update can be done by IZAR@SET configuration software.

GENERAL

IZAR RDC PREMIUM	
Version	For 10,000 meters
Housing	Light grey housing, lockable
Possible display media	Independent of media
Antenna	4 external antenna connections
Device list	Up to 10,000 meters
Data logging	Individual adjustable (5 minutes – 24 hours)
Range of reception	Up to 2,000 m outdoors, dependent on used antenna and location

TECHNICAL DATA

IZAR RDC PREMIUM	
Versions / Frequency band	868.95 MHz or 434.475 MHz (OMS, wMBUS (EN 13757-3,-4), PRIOS)
Interfaces	LAN (basic version), UMTS (LAN+UMTS+GPRS)
Logging capacity	> 2.5 Mio. telegrams
Power supply	110 V ... 230 V Line voltage and PoE (802.11af) / PoE+ (802.11at)
Power connector	CEE 7/7, others on request
Typical power consumption	W 8.4
Software	Configuration via IZAR@SET (local)

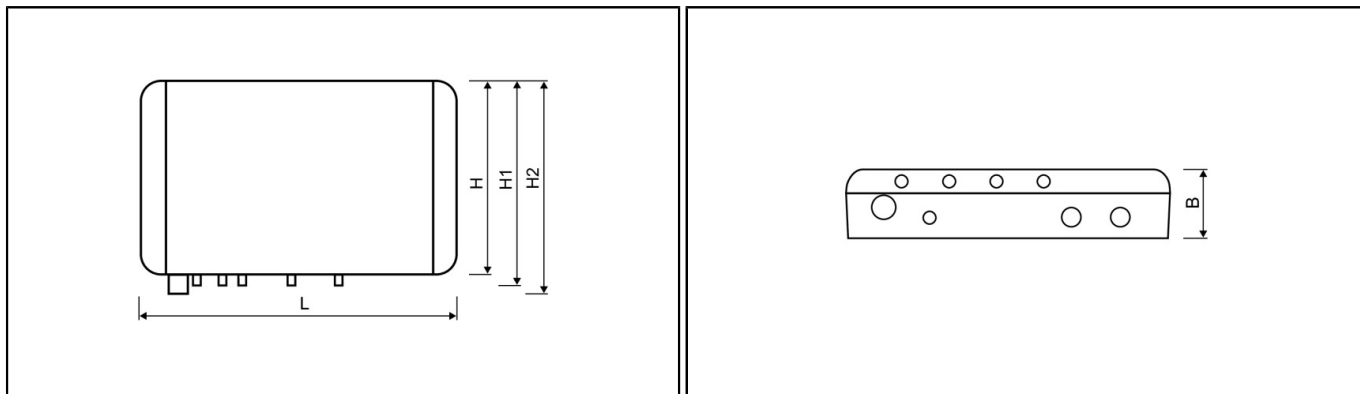
AMBIENT CONDITIONS

IZAR RDC PREMIUM	
Operating temperature	°C -20 ... +55
Storage temperature	°C -20 ... +70
Protection class	IP 65
Humidity	% 10 ... 85 (non-condensing)

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DIMENSIONS



IZAR RDC PREMIUM			
Length	L	mm	280
Width	B	mm	60
Height	H	mm	168
Height	H1	mm	179
Height	H2	mm	183