

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 |

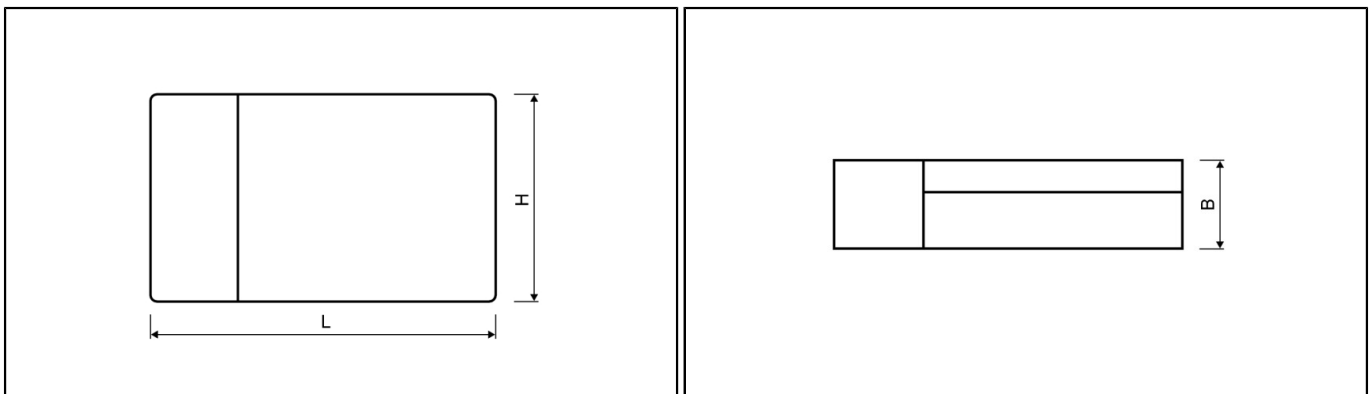
TECHNICAL DATA

| 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) |

DIMENSIONS



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