

# IZAR RDC PREMIUM 2 (PHASED-OUT)

RADIO | RECEIVER

**DIEHL**  
Metering



## APPLICATION

The IZAR Radio Data Concentrator Premium 2 is the most powerful data concentrator of Diehl Metering's RDC product family. The fixed network receivers are already in the 4th generation and combine longtime experience with numerous devices in global operation. The IZAR RDC Premium 2 can reach highest reading performance in regards to reading range, data timeliness and data granularity under harsh environmental conditions. Therefore an outstanding cost efficiency with future-compliance is guaranteed. Our gateway features 2way2receiver communication which enables you to access the stored data and configuration parameters with an online feeling from any place.

## FEATURES

- ▶ Capacity for up to 50,000 devices
- ▶ Extreme extended reception range with mioty® for Metering
- ▶ Intelligent telegram filtering
- ▶ Highest meter data availability with On-Demand Reading
- ▶ Brown-Out Detection with an energy buffer allowing to store last data
- ▶ 2way2receiver communication allowing access to gateway from any place
- ▶ High On-Board-Security and communication protected against unauthorized access
- ▶ LAN and WAN 4G (LTE) for data transmission
- ▶ IP 65 as well for LAN while using our LAN connector accessory

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## PRINCIPLE OF OPERATION

The IZAR RDC Premium 2 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 in flexibly settable intervals or time points in a fully automatic and secure way to IZAR@NET or other systems which can upload the files for further processing. All this happens automatically upon schedules configured in every gateway.

## GENERAL

| IZAR RDC Premium 2 |                                                              |
|--------------------|--------------------------------------------------------------|
| Capacity           | Up to 50,000 devices with radio                              |
| Housing            | Light grey metal housing, lockable                           |
| Supported media    | Independent of media                                         |
| Antenna            | 2 N connections                                              |
| Data granularity   | Individual adjustable (5 minutes - 24 hours)                 |
| Range of reception | Up to 11 km outdoors, dependent on used antenna and location |

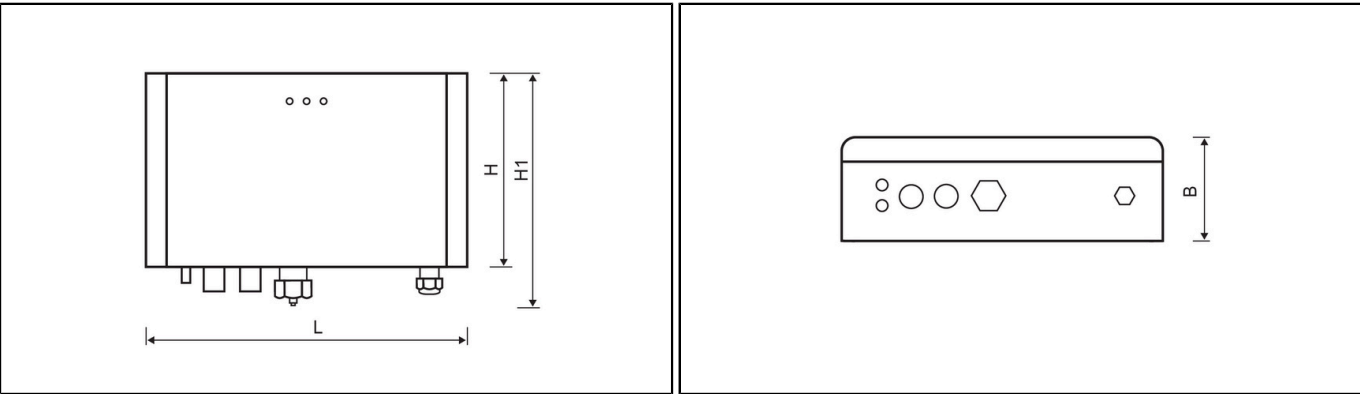
## TECHNICAL DATA

| IZAR RDC Premium 2        |                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Versions                  | 868 MHz and 434 MHz (OMS, wMBUS (EN 13757), PRIOS, RealData, Long Range Radio (R4 / R4+), extreme extended radio range mioty® for Metering) |
| Interfaces                | LAN, 2G, 3G, 4G                                                                                                                             |
| Power supply              | 100 V ... 240 V AC Line voltage and PoE+ (802.3at)                                                                                          |
| Power connector           | CEE 7/7 (power plug adapters type B (USA) and type G (UK) available as accessories)                                                         |
| Typical power consumption | W < 15 (max. 25)                                                                                                                            |

## AMBIENT CONDITIONS

| IZAR RDC Premium 2    |                                                                |
|-----------------------|----------------------------------------------------------------|
| Operating temperature | °C -20 ... +55                                                 |
| Storage temperature   | °C -20 ... +70                                                 |
| Protection class      | IP 65 (as well for LAN with our IP 65 LAN connector accessory) |
| Humidity              | % 10 ... 85 (non-condensing)                                   |

## DIMENSIONS



| IZAR RDC Premium 2 |    |    |     |
|--------------------|----|----|-----|
| Length             | L  | mm | 280 |
| Width              | B  | mm | 90  |
| Height             | H  | mm | 170 |
| Height             | H1 | mm | 205 |
| Weight             |    | kg | 3.8 |

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## Economic Actor Information

Applicable regulation and legal obligations for products may change.

DIEHL METERING monitors applicable regulation to ensure their products comply at the date of placing on the market.

Each economic actor making products available on the market thereafter must independently keep informed about the current applicable regulation.

For questions, please contact: [metering-germany-info@diehl.com](mailto:metering-germany-info@diehl.com)