

# IZAR RDC STANDARD

Einbauanleitung  
Installation guide



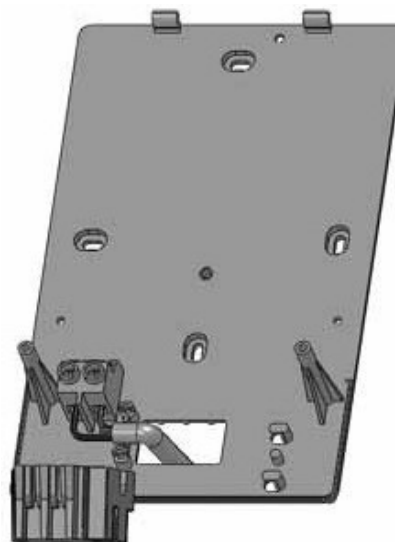
**Diese  
Anleitung ist  
dem Endkunden  
auszuhändigen.  
This guide must be  
given to the end  
consumer.**

## 1. Package content

Please check the package content before you install or use the IZAR RDC STANDARD for the first time.



1 x housing



1x fixture plate



1 x terminal cover



2 screws

2 dowels

## 2. General description

The **IZAR Radio Data Concentrator STANDARD** is a Smart Metering Transceiver from the DIEHL Metering Group, and is based on Open Metering System Specifications (OMS-S). Due to its interoperability, datalogging and remote configuration, this meter is a future-oriented core product for the comprehensive Smart Metering Roll-

Outs with multi utility approach. IZAR RDC STANDARD is designed to implement a radio fixed network from an economic and technical point of view in the best possible way.

### 3. Technical Data

<b>Communication</b>	
LAN (Ethernet)	10/100 Base-T LAN Interface (IEEE 802.3)
GSM / GPRS	1 external antenna connection with SMA pin (optional)
ISM (wM-Bus)	2 external antenna connection with SMA pin (optional)

<b>Environment</b>	
Protection class	IP 40
Protection class	II
Operating temperature	-25 °C to +65 °C
Storage temperature	-30 °C to +70 °C (storage period <1 year)
Relative humidity	0 % to 70 % (non-condensing)

<b>Electrical connection</b>	
Voltage	100 V to 240 V
Frequency	50 Hz to 60 Hz
Power	max. 100 mA (at 100 V)

## 4. Instructions

---



The IZAR RDC STANDARD should be mounted and put into operation by qualified experts only. The same applies for service work during operation.

Failure to observe this regulation could result in serious health hazards or in danger to life due to electrical shock.

---



In the event of equipment error, discontinue use and contact the responsible customer support immediately.

An equipment error applies when, for example, the housing and/or the supply line is damaged or when the housing contains liquid.

---



Always observe the relevant regulations against electrostatic discharge (ESD).

Do not open the housing.

The electrical connection, the connection with the Ethernet (LAN) port and the plugging in of the SIM card must be carried out with the power switched off.

---

## 5. Installation

### 5.1 Fitting the fixture plate

The IZAR RDC STANDARD is intended for mounting on a flat wall. Use the fixture plate, the two dowels and the two screws (see fig. I).



When installing, ensure that the fixture plate is torsion-free and the protection class environment IP40 is respected.

---

## 5.2 Electrical connection (fig. II)

---



Make sure before the electrical installation that the power cords are disconnected.

Only use rigid electric cables which are suitable for fixed installation.

---

Always fasten the cover plate of the cable connection with screws.

The front elements can also be removed for the cable routing.

For the electrical connection please use only cables with wire gauge AWG19 to AWG14.

A separation point must be provided outside of the installation (see fig. III).

## 5.3 Fitting housing and terminal cover (fig. IV)

---



The housing and the terminal cover can be mounted under electric voltage.

---

- Make sure during the fitting of the housing that the brackets are correctly inserted to ensure a torsion-free mounting of the housing.

- After the fitting, the housing must be fixed with screws and sealed.

## **6. Connections / Communication**

### **6.1 LAN cable**

The LAN cable is plugged into the RJ45 socket. Use the strain relief, to protect the connection.

### **6.2 SIM card (optional)**



The insert of the SIM card may only take place in the imprinted manner and under voltage-free condition

---

### **6.3 Antenna (optional)**

The IZAR RDC STANDARD can be provided with external antenna connections for ISM (868 MHz or 434 MHz) and GSM/GPRS.



The connected antenna must correspond to the relevant frequencies (see label of the terminals). The external antenna are only to be used in the interior.

The allowed maximum cable length of the external GSM / GPRS antenna is < 1 m.

Liability is excluded for damage caused by the influence of external connected antenna, e.g. lightning, condensation.

Use only antenna which are specified by DIEHL Metering.

---

## **6.4 Display elements**

For the identification of the operating condition, 2 integrated LEDs are provided on the front.

## **7. Environmental note**

The device must not be disposed together with the domestic waste.

Return it to the manufacturer for recycling.

## **8. Approval and Conformity**

Hereby, Diehl Metering declares that the radio equipment type IZAR RDC STANDARD is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<http://www.diehl.com/en/diehl-metering/products-solutions/product-download/>

On this page, please select "Diehl Metering GmbH" from the partner list and "Metering Systems" from the product list.

Technische Änderungen vorbehalten • Technical changes reserved

Mat.-Nr. 3019832 • 29/5/2017

## **Diehl Metering GmbH**

Industriestrasse 13

91522 Ansbach

Phone: +49 981 1806-0

Fax: +49 981 1806-615

info-dmde@diehl.com



[www.diehl.com/metering](http://www.diehl.com/metering)