

IZAR RDC BATTERY

RADIO | RECEIVER

DIEHL
Metering



APPLICATION

IZAR RDC BATTERY is a concentrator specifically designed for fixed network meters reading.

IZAR RDC BATTERY reads every communicating multi-energy meters (water, thermal energy, gas, electricity...) and sensors equipped with the IZAR radio technology. It then transmits the data to a data storage server at preset times. IZAR RDC BATTERY can manage up to 4,000 meters with the data directly processed using IZAR@NET 2 or IZAR PLUS PORTAL software.

IZAR RDC BATTERY is fully autonomous in energy thanks to a battery pack easily replaceable on site. An external connector enables the use of another source of energy, such as a solar one. Moreover, equipped with a SD memory card, it can operate in "data logger" mode for a more accurate analysis of the data (consumption profiles, leakage detection...).

FEATURES

- ▶ Available in 868 MHz or 434 MHz
- ▶ Local or remote configuration
- ▶ Interval of radio reading from 5 min. to 24 hours
- ▶ Up to 4,000 meters stored
- ▶ Data transmission to FTP or SFTP server
- ▶ Configurable rate of data transmission via 2G/3G
- ▶ Battery pack included, replaceable on site without data loss
- ▶ Battery lifetime up to 10 years
- ▶ "Radio data logger" function

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OPERATING PRINCIPLE

IZAR RDC BATTERY receives radio frames according to the EN 13757 standard and the OMS specification (Open Metering System), regardless of the type of fluid measured (water, thermal energy, gas, electricity, temperature, humidity...). Intelligent data filter options can be activated in order to precisely target the reading on defined meters, in particular by fluid type or by manufacturer. The data transfer to an FTP or SFTP storage server is performed automatically through programming, either at regular intervals or at fixed date/time. The Diehl Metering software solutions IZAR@NET 2 or IZAR PLUS PORTAL enable the processing and exploitation of this data.

TECHNICAL DATA

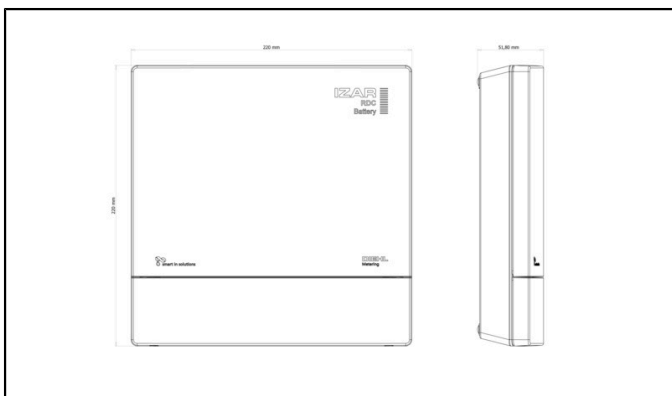
| IZAR RDC BATTERY | |
|-------------------------|--|
| Housing | Light grey with removable compartment |
| Frequency | MHz 868.95 (T1/C1 mode) or 434.475 (T1 mode only) |
| Communication protocols | OMS wMBUS [EN 13757-3/-4] PRIOS |
| Type of fluid measured | Multi-energy (water, thermal energy, electricity, temperatures, humidity...) |
| Antenna | Internal and external (SMA connectors) |
| Connectivity | Bluetooth® |
| Network | 2G/3G |
| Power supply | V(DC) Field-replaceable lithium battery pack as well as external connector (12 ... 24V DC) |
| Battery lifetime | Up to 10 years* |
| Meters management | Up to 4,000 meters |
| Recording capacity | 250,000 frames |
| Events | Concentrator displacement Temperature Housing opening Low battery |
| Data logging | Possible with recording on SD card |
| Configuration | Locally or remotely with a dedicated software (Windows) |

* Depending on the setting and in standard conditions of use and temperatures. Theoretical lifetime, not guaranteed.

AMBIENT CONDITIONS

| IZAR RDC BATTERY | |
|------------------------|---------------------------------------|
| Operating temperatures | °C -20 ... +70 |
| Storage temperatures | °C -20 ... +70 |
| Ambient humidity | % 10 ... 90 |
| Protection class | IP65 - outdoors installation possible |

DIMENSIONS



| IZAR RDC BATTERY | |
|------------------|-----------|
| Length | mm 220 |
| Width | mm 220 |
| Height | H mm 51.8 |