

IZAR RC i R4 LIGHT

RADIO MODULE

DIEHL
Metering



APPLICATION

IZAR Radio Compact Inductive R4 LIGHT is designed for mobile and long-range fixed network remote reading of Diehl Metering submetering meters.

IZAR RC i R4 LIGHT module can be clipped onto all the meters of the Diehl Metering inductive modular range (Ha+Ti or Ti) with a grey or red ring. It comprises a tamper proof sensor operating on inductive principle.

IZAR RC i R4 LIGHT is field or factory configured with the serial number of the associated meter. IZAR RC i R4 LIGHT transmits the meter reading via a unidirectional link every 32 seconds in R3 mode and every 15 minutes in long-range fixed network R4 mode.

IZAR RC i R4 LIGHT offers multiple functions (current index, 1 historical index value, remaining battery lifetime) and alarms (leaks, meter blocked, backflow...).

FEATURES

- ▶ Compact radio transmitter
- ▶ Compatible with Diehl Metering water meters
- ▶ Available in 868 MHz
- ▶ Designed for radio reading in walk-by or long-range fixed network
- ▶ IP 54 - not suitable for wet environment
- ▶ Lifetime up to 15 years
- ▶ 1 historical index with a specific date to simplify billing
- ▶ Insensitive to magnetic fraud

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PRINCIPLE OF OPERATION

IZAR RC i R4 LIGHT includes an electronic circuit that collects the data coming from a Diehl Metering water meter and transmits in real time the index and other operating information every 32 seconds in R3 mode and every 15 minutes in long-range fixed network R4 mode.

Mobile reading in Walk-by:

The data sent by IZAR RC i R4 LIGHT is collected using a Diehl Metering handheld computer or tablet equipped with an IZAR RECEIVER BT and transferred directly to a centralized monitoring system.

Fixed network:

A fixed receiver IZAR RDC STANDARD/IZAR RDC BATTERY (fixed network R3) or IZAR RDC PREMIUM (long-range fixed network R4) installed in building, will collect all the data and send it at predefined intervals via GPRS or LAN to a centralized server. Reading through M-Bus application with an IZAR CENTER together with an IZAR RECEIVER M-BUS and IZAR@NET 2 software is also possible.

TECHNICAL DATA

| IZAR RC i R4 LIGHT | |
|------------------------|---|
| Communication protocol | PRIOS |
| Frequency | MHz 868.95 (R3 mode) 868.30 (R4 mode) |
| Modulation | FSK |
| Transmission power | mW 16 |
| Transmission mode | Unidirectional |
| Radio range | Up to 500 m (R3) and 1.5 km (R4) depending on the environment |
| Standards | EN 300 220, CE, RED directive, EN 13757-3/-4 |
| Power supply | 1 fixed 3.6 V lithium battery |
| Typical life | Up to 15 years* |

* Standard conditions of use and temperature. Theoretical life, with no guarantee.

AMBIENT CONDITIONS

| IZAR RC i R4 LIGHT | |
|-------------------------------|----------------|
| Operating ambient temperature | °C +5 ... +55 |
| Storage temperature | °C -20 ... +70 |
| Degree of protection | IP 54 |

CONFIGURATION

| IZAR RC i R4 LIGHT | |
|--------------------|---|
| Interface | Optical IrDA |
| Functions | Current index Historical Index value Remaining battery lifetime |
| Alarms management | Leak detection Tamper detection Meter stopped Overflow Underflow Backflow |

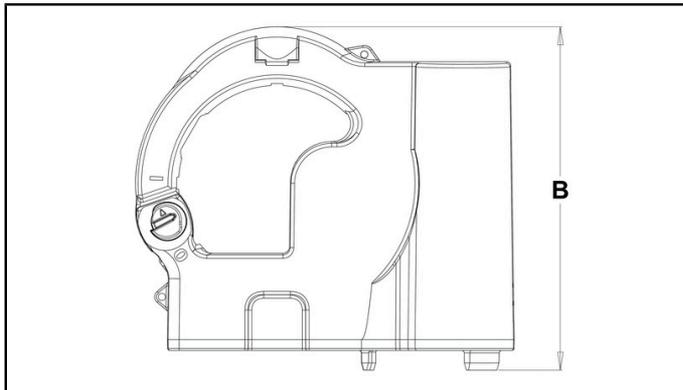
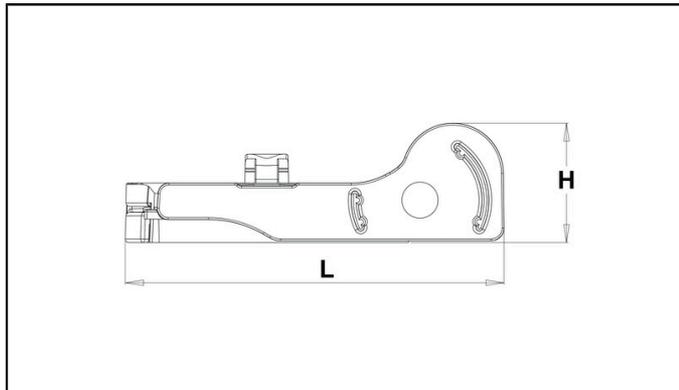
COMPATIBILITY

| IZAR RC i R4 LIGHT | |
|--------------------|---|
| Meters | Diehl Metering inductive modular range Ha+Ti or Ti. Pulse weight DN 15 to DN 40 (1 liter) Pulse weight DN 50 to DN 125 (10 liters) Pulse weight DN 150 to 300 (100 liters). Submetering use only. |

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DIMENSIONS



| IZAR RC i R4 LIGHT | | | |
|--------------------|---|----|-----|
| Length | L | mm | 104 |
| Height | H | mm | 33 |
| Width | B | mm | 95 |