

# IZAR RC 868 I MIOTY

## RADIO MODULES



### APPLICATION

IZAR RC 868 i mioty is designed to transmit mechanical meter data via an unidirectional link, in mobile mode and fixed network. It can be field or factory programmable.

Easy to fit, the IZAR RC 868 i mioty 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.

It offers multiple functions (current index, index at anniversary date...) and alarms (detailed leaks, meter blocked, low battery...).

### FEATURES

- Compact radio emitter, mioty® for Metering for Fixed Network and wMBus OMS Gen3 for Mobile Reading
- Suitable for mobile reading and long range fixed network
- IP 68
- Lifetime up to 15 years
- Insensitive to magnetic fraud
- Local interface for configuration

## PRINCIPLE OF OPERATION

IZAR RC 868 i mioty includes an electronic circuit that collects the data coming from a Diehl Metering water meter.

Mobile reading in walk-by:

The data sent by IZAR RC 868 i mioty is collected using either a handheld computer or tablet equipped with an IZAR RDC Motion in walk-by. Data is then transferred directly to a centralized monitoring system.

Fixed network:

A fixed receiver IZAR IoT GATEWAY Compact or IZAR IoT GATEWAY Premium installed in a fixed location will collect the data and send it at predefined intervals, via GPRS or LAN, to an IZAR PLUS PORTAL and IZAR@NET.

## TECHNICAL DATA

| IZAR RC 868 i mioty    |  |
|------------------------|--|
| Communication protocol | wMBus T1-mode OMS Gen 3 and mioty® for Metering L1C                                    |
| Frequency              | MHz 868.95 wMBus T1-mode and 868.18 mioty® for Metering                                |
| Modulation             | (G) MSK for L1C and FSK for wMBus  |
| Transmission power     | mW 16  |
| Transmission mode      | Unidirectional   |
| Radio range            | Up to 500 m (T1 mode) and 5 km (mioty® for Metering mode) depending on the environment |
| Approval               | EN 300 220, CE, RED directive, EN 13757-3/-4-7   |
| Power supply           | Lithium 3.6 V  |
| Battery lifetime       | Up to 15 years*  |
| Frame encryption       | AES 128-CBC  |

\* Standard conditions of use and specified temperatures. Theoretical lifetime depends on usage profile, with no guarantee

## AMBIENT CONDITIONS

| IZAR RC 868 i mioty         |              |
|-----------------------------|--------------|
| Operating temperature range | °C -15...+55 |
| Storage temperature range   | °C -20...+70 |
| Ambient humidity            | % 0...100    |
| Protection class            | IP 68        |

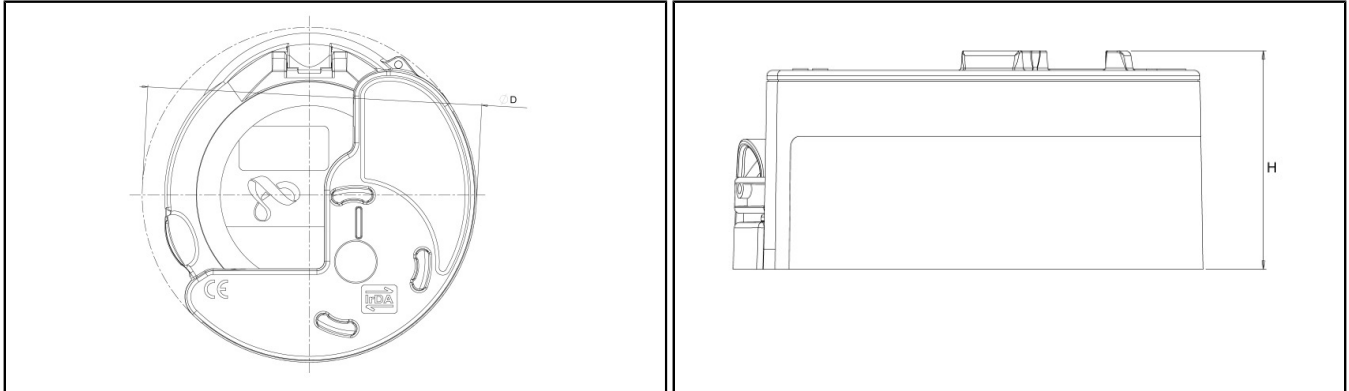
## CONFIGURATION

| IZAR RC 868 i mioty |   |
|---------------------|---|
| Local Interface     | IrDA  |
| Alarms management   | Leak detection   Meter blocked   Overflow   Underflow   Backflow   Sensor fraud   Mechanical fraud   Low battery power   Detailed leakage information (Cumulated number of days   Cumulated leakage volume   Number of event   Event number of days   Cumulated number of days) |
| Functions           | Current index   |

## COMPATIBILITY

| IZAR RC 868 i mioty |  |
|---------------------|--|
| Meters              | Diehl Metering inductive modular range Ha+Ti or Ti (grey or red ring). Pulse weight DN 15 to DN 40 (1 liter)   Pulse weight DN 50 to DN 125 (10 liters)   Pulse weight DN150 to 300 (100 liters) |

**DIMENSIONS**



**IZAR RC 868 i mioty**

|          |   |    |    |
|----------|---|----|----|
| Diameter | D | mm | 90 |
| Height   | H | mm | 40 |

**PROFILE OVERVIEW**

|                          | Fixed Network (AMI) | Mobile frame (AMR)   | Mobile details           | Battery lifetime |
|--------------------------|---------------------|----------------------|--------------------------|------------------|
| Walk-by profile          | 1 frame / hour      | 1 frame / 64 s       | -                        | 13 years*        |
| Passive drive-by profile | 1 frame / 4 hours   | 1 short frame / 22 s | Long frame / 2 mins 12 s | 15 years*        |
| Drive-by profile         | 1 frame / 4 hours   | 1 short frame / 16 s | Long frame / 1 min 36 s  | 12 years*        |

\* Standard conditions of use and specified temperatures, with no guarantee

## **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)

Diehl Metering Sp. z o.o.  
Bażanowice, ul. Cieszyńska 1A  
43-440 Golezów  
Poland  
Phone: +48 33 851 04 39  
Fax: +48 33 852 16 75  
[metering-poland-info@diehl.com](mailto:metering-poland-info@diehl.com)  
[www.diehl.com/metering](http://www.diehl.com/metering)

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