IZAR RC 868 i W G4

RADIO MODULE

DIEHL
Metering

APPLICATION

The new generation of IZAR Radio Compact Inductive Waterbox G4 is designed for mobile reading and long-range fixed network remote reading of Diehl Metering meters.

IZAR RC 868 i W G4 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.

Easy to fit, IZAR RC 868 i W G4 integrates the standardized OMS protocol and can be field or factory programmable. IZAR RC 868 i W G4 radio module transmits the meter reading, via an unidirectional link, in mobile mode or fixed network.

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

FEATURES

▶ Compact radio emitter, OMS protocol designed for concentric meters

▶ Suitable for mobile reading and long range fixed network

▶ IP 68

▶ Lifetime up to 15 years

▶ Integrated data logger

▶ Detailed leaks information

▶ 11 historical index values

▶ Insensitive to magnetic fraud

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PRINCIPLE OF OPERATION

IZAR RC 868 i W G4 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 12 seconds in mobile R3 mode and every 15 minutes in long-range fixed network R4 mode.

Mobile reading in walk-by / drive-by / passive drive-by:
The data sent by IZAR RC 868 i W G4 is collected using either a handheld computer or tablet equipped with an IZAR RECEIVER BT in walk-by or drive-by mode or with an IZAR RDC VEHICLE in passive drive-by mode. Data is then 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 a fixed location will collect 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 associated to an IZAR RECEIVER M-BUS and IZAR@NET 2 software is also possible.

Logger functions:
IZAR RC 868 i W G4 has an integrated data logger that registers consumption at a regular intervals. In case of consumer dispute or for analysis purposes, the data is available via the IrDA interface of the module and is transferred to the handheld or computer/tablet via a dedicated application. The consumption backup interval is programmable between 1 to 40 minutes. This interval can be modified thanks to the same dedicated application.

TECHNICAL DATA

		IZAR RC 868 i W G4
Communication protocol		OMS Volume 2 Version 3.0.1
Frequency	MHz	868.95 (R3 mode) and 868.30 (R4 mode)
Modulation		FSK
Transmission power	mW	16
Transmission mode		Unidirectional
Radio range		Up to 500 m (R3 mode) and 1.5 km (R4 mode) depending on the environnement
Approval		EN 300 220, CE, RED directive, EN 13757-3/-4
Power supply		Lithium 3.6 V
Battery lifetime		Up to 15 years*

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

AMBIENT CONDITIONS

		IZAR RC 868 i W G4
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 W G4
Interface	IrDA
Alarms management	Leak detection	Radio disconnected	Meter stopped	Overflow	Underflow	Backflow	Low battery indicator
Functions	Current index + 11 historical index values (yearly, monthly, weekly or daily)	Detailed leaks information: numbers of leaks, number of leaks day, date of the last leak, estimated volume of the leak(s) ...

DATA LOGGER

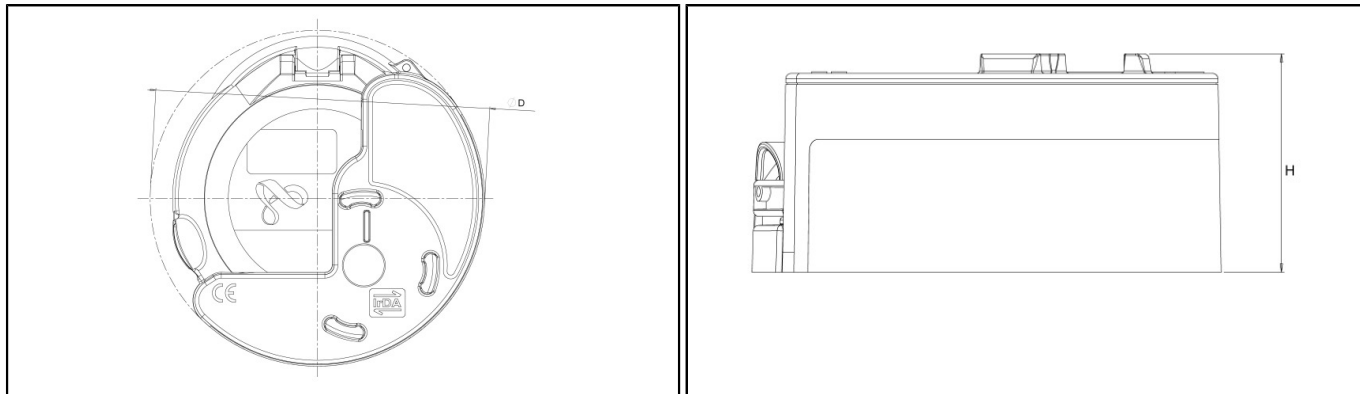|	IZAR RC 868 i W G4
Interface	IrDA + dedicated application working with hand-held terminal and/or laptop computer.
Management	Historical index	Access to the radio module memory (up to 3,500 values) in case of consumer dispute. The backup interval is programmable between 1 to 40 min.

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COMPATIBILITY

	IZAR RC 868 i W G4
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 W G4
Diameter	D	mm	90
Height	H	mm	40

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