IZAR RC I R4

Radio | Radio Module

DIEHL
Metering

APPLICATION

IZAR Radio Compact Inductive R4 is designed for mobile reading and long-range fixed network remote reading of Diehl Metering water meters. IZAR RC i R4 radio 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 i R4 is field or factory programmable with the serial number of the associated meter. IZAR RC i R4 radio module transmits the meter reading via a unidirectional link every 8 seconds in R3 mode and every 15 minutes in long-range fixed network R4 mode, enabling an efficient drive-by reading at 50 km/h and an accurate fixed network.

IZAR RC i R4 offers multiple functions (historical index value, remaining battery lifetime…) and alarms (leaks detection, meter stopped, backflow…).

FEATURES

▶ Compact radio emitter

▶ Compatible with Diehl Metering water meters

▶ Available in 868 MHz and 434 MHz

▶ Suitable for mobile reading and long-range fixed network

▶ IP 68

▶ Lifetime up to 15 years

▶ Different functions and alarms available

▶ 1 historical index value stored at predefined date to facilitate billing

▶ Insensitive to magnetic fraud

Empower a sustainable future

IZAR RC I R4
Radio | Radio Module

PRINCIPLE OF OPERATION

IZAR RC i R4 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 8 seconds in 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 i R4 is collected using either a handheld computer or a tablet equipped with an IZAR RECEIVER BT for Walk-by/Drive-by or an IZAR RDC VEHICLE for passive Drive-by. 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 building 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.

TECHNICAL DATA

		IZAR RC i R4
Communication protocol		PRIOS
Frequency	MHz	868.95 or 434.47 MHz (R3 mode) and 868.30 or 433.42 MHz (R4 mode)
Modulation		FSK
Transmission power	mW	16 mW (868 MHz) | 10 mW (434 MHz)
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		Lithium battery 3.6 V
Battery lifetime		Up to 15 years*

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

AMBIENT CONDITIONS

		IZAR RC i R4
Operating temperature range	°C	-15 ... +55
Storage temperature range	°C	-20 ... +70
Ambient humidity	%	0 ... 100
Degree of protection		IP 68

CONFIGURATION

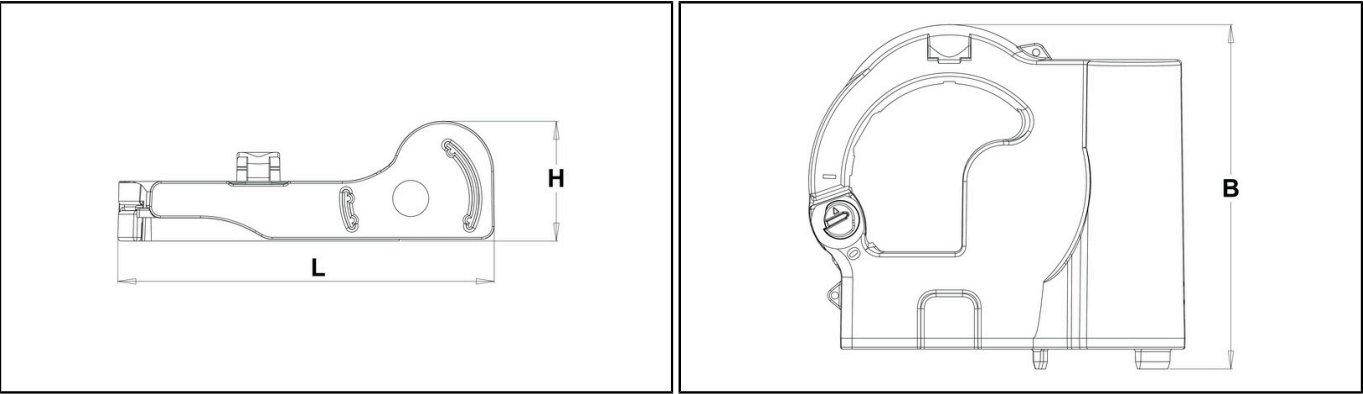|	IZAR RC i R4
Interface	Optical IrDA
Functions	Current index | Historical index value | Remaining battery lifetime
Alarms management	Leak detection | Meter stopped | Overflow | Underflow | Backflow | Mechanical tampering

COMPATIBILITY

	IZAR RC i R4
Meters	Diehl Metering inductive modular range Ha+Ti or Ti. Pulse weight DN15 to DN40 (1 liter) | Pulse weight DN50 to DN125 (10 liters) | Pulse weight DN150 to 300 (100 liters)

IZAR RC I R4

Radio | Radio Module

DIMENSIONS

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

Empower a sustainable future