IZAR RC i R4

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 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 identification number of the associated meter. IZAR RC i R4 radio module transmits the meter reading via a unidirectional link every 8 seconds in mobile mode R3 and every 15 minutes in fixed network mode R4.

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

FEATURES

Compact radio emitter Compatible with a modular meter inductive technology (Ha+Ti or Ti)Available in 868 MHz and 434 MHzSuited for mobile reading and long range fixed networkIP 68Lifetime up to 15 yearsDifferent functions and alarms1 historical index value stored at predefined date to facilitate billingInsensitive to magnetic fraud

IZAR RC i R4
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PRINCIPLE OF OPERATION

IZAR RC i R4 includes an electronic circuit that collects data coming from a Diehl Metering water meter and stores them in real time in the memory of the radio module. IZAR RC i R4 transmits the index and other operating information every 8 seconds in mobile mode R3 and every 15 minutes in long-range fixed network mode R4.

Walk-by / Drive-by / Passive Drive-by :
The data sent by IZAR RC i R4 is collected using either a Diehl Metering handheld computer* 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 (small area fixed network R3) or IZAR RDC PREMIUM (long-range fixed network R4) installed in building, will collect the data from all the IZAR RC i R4, memorize them and send them each day via GPRS or LAN to a centralized server. Reading via M-Bus application such as an IZAR CENTER together with an IZAR RECEIVER M-BUS and IZAR@NET 2 software is possible as well.

(*) IZAR system is also compatible with a tablet. Please contact us for more information.

TECHNICAL DATA

		IZAR RC i R4
Communication protocol		PRIOS
Frequency	MHz	868.95 or 434.47 (R3 mode) and 868.30 or 433.42 (R4 mode)
Modulation		FSK
Transmission power	mW	16
Transmission mode		Unidirectional
Radio range		Up to 500 m depending on the environment
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 i R4
Operating temperature range	°C	-15 ... +55
Storage temperature range	°C	-20 ... +70
Ambient humidity	%	0 ... 100
Degree of protection		IP 68

CONFIGURATION

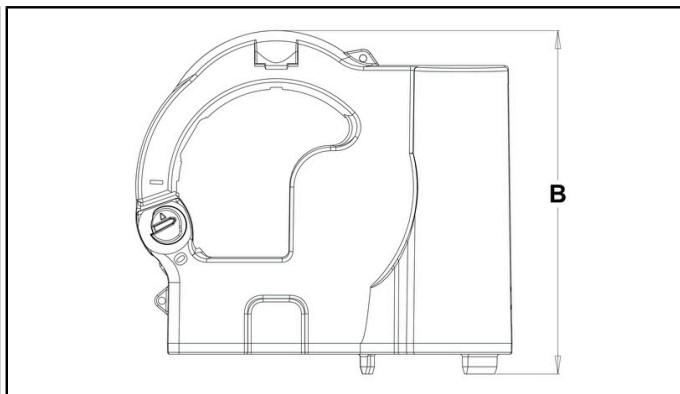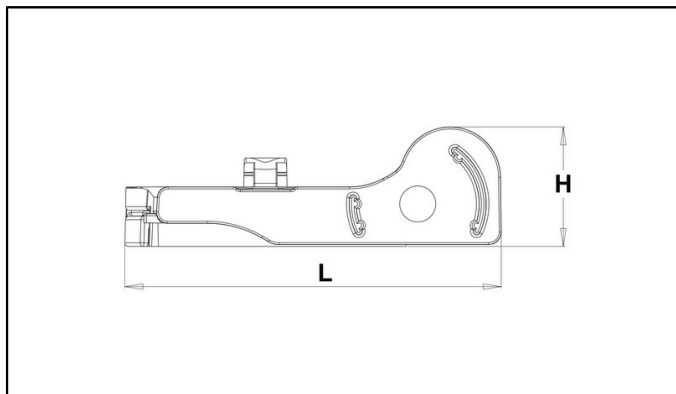|	IZAR RC i R4
Interface	Optical IrDA
Functions	Standard index | Historical index value | Remaining battery lifetime
Alarms management	Leak detection | Meter stopped | Overflow | Underflow | Backflow | Mechanical tampering

COMPATIBILITY

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

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DIMENSIONS

			IZAR RC i R4
Length	L	mm	100
Height	H	mm	33
Width	B	mm	100

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