DIEHL
Metering

IZAR RC I G4

RADIO MODULE

APPLICATION

The new generation of IZAR Radio Compact Inductive G4 is designed for mobile reading and long range fixed network remote reading of Diehl Metering water meters. IZAR RC i G4 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 G4 integrates the standardized OMS protocol and can be field or factory programmable. IZAR RC i G4 radio module transmits the meter reading, via a unidirectional link every 12 seconds in R3 mode and every 15 minutes in long-range fixed network R4 mode enabling an efficient drive-by reading and an accurate fixed network.
IZAR RC i G4 offers multiple functions (current index, 11 historical index values and detailed leaks) and alarms (leaks detection, meter stopped, low battery...).

FEATURES

- Compact radio emitter, OMS protocol
- 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
- Detailed leaks information
- 11 historical index values
- Different functions and alarms available
- Insensitive to magnetic fraud

PRINCIPLE OF OPERATION

IZAR RC i 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 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 G4 is collected using either a handheld computer or 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 possible as well.

TECHNICAL DATA

	IZAR RC i G4
Communication protocol	OMS Volume 2 Version 3.0.1
Frequency	868.95 or 434.47 MHz (R3 mode) I 868.30 or 433.42 MHz (R4 mode)
Modulation	FSK
Transmission power	16 mW (868 MHz) I 10 mW (434 MHz)
Transmission mode	Unidirectional
Radio range	Up to 500 m (R3) and 1.5 km (R4) depending on the environnement
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 G4
Operating temperature range	°C	-15 ... +55
Storage temperature range	°C	-20 ... +70
Ambient humidity	%	0 ... 100
Degree of protection		IP 68

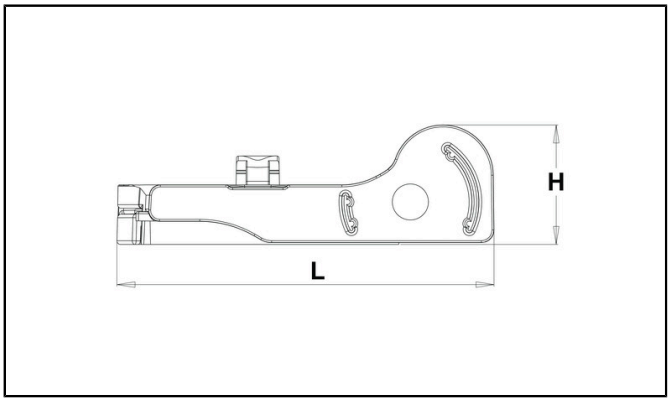
CONFIGURATION

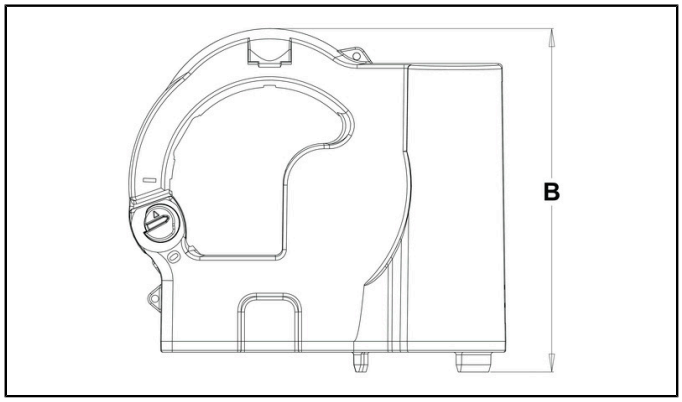
	IZAR RC i G4
Interface	Optical IrDa
Functions	Current index I 11 historical index values (yearly, monthly, weekly or daily) I detailed leaks information: numbers of leaks, number of leaks day, date of the last leak, estimated volume of the leak(s) ...
Alarms management	Leak detection I Mechanical tampering I Meter stopped I Overflow I Underflow I Backflow I Low battery indicator

COMPATIBILITY

	IZAR RC i G4
Meters	Diehl Metering inductive modular range Ha+Ti or Ti . Pulse weight DN15 to DN40 (1 liter) I Pulse weight DN50 to DN125 (10 liters) I Pulse weight DN150 to DN300 (100 liters)

DIMENSIONS





			IZAR RC i G4
Length	L	mm	104
Height	H	mm	33
Width	B	mm	95

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

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