

VHF CP V2

RADIO MODULE



APPLICATION

VHF CP V2 is a radio module designed for walk-by reading and long-range fixed network remote reading of Diehl Metering water meters.

VHF CP V2 can be easily clipped on all the meters of the Diehl Metering inductive modular range (Ha+Ti or Ti) with a grey or red ring. Its tamper-proof sensor operating on inductive principle enables the data collection of the water meter and the reading is ensured via a bidirectional link in walk-by mode and long-range fixed network mode. VHF CP V2 is field or factory programmable with the serial number of the associated meter.

VHF CP V2 offers multiple functions (historical index value, flowrate histogram...) and alarms (breakage detection, frost and risk of frost detection, backflow...).

FEATURES

- Compact radio emitter
- Compatible with Diehl Metering water meters
- Available in 169 MHz with WIZE protocol
- Suitable for walk-by reading and fixed network reading
- IP 68
- Lifetime up to 15 years
- Different functions and alarms available
- Insensitive to magnetic fraud
- Calculation of radio traffic to determine the energy used and the remaining lifetime of the radio module
- Nightflow feature with 15 mins indexes

OPERATING PRINCIPLE

VHF CP V2 includes an electronic circuit that collects the data coming from a Diehl Metering water meter and transmits the index and other operating information in long-range fixed network WIZE protocol according to configurable profiles, or on demand in walk-by reading mode.

Mobile reading in walk-by:

The data sent by the VHF CP V2 is collected in bidirectional mode using a portable terminal equipped with a battery-powered radio transceiver. The data is then uploaded directly to the centralized computer system.

Fixed network:

A fixed concentrator installed on a building will collect the data and send it at predefined intervals via mobile network to the remote meter reading information system. The module is able to switch automatically from walk-by mode to fixed mode and to optimize the uplink modulation.

TECHNICAL DATA

VHF CP V2	
Communication protocol	LAN 2 protocol available 1G or 2G (WIZE)
Frequency	169 MHz
Modulation	GMSK - GFSK (WM2400, WM4800, PHY-HSpeed, LD2400, LD1200)
Transmission power	Up to 63 mW
Transmission mode	Bidirectional
Radio range	Up to 2 km depending on the environment
Standards	EN 300 220 CE RED directive 13757-3/-4
Power supply	Lithium battery 3.6 V
Battery lifetime	Up to 15 years*

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

AMBIENT CONDITIONS

VHF CP V2	
Ambient operating temperature	°C -20 +55
Storage temperature	°C -25 ... +65
Ambient humidity	% 0 ... 98
Degree of protection	IP 68

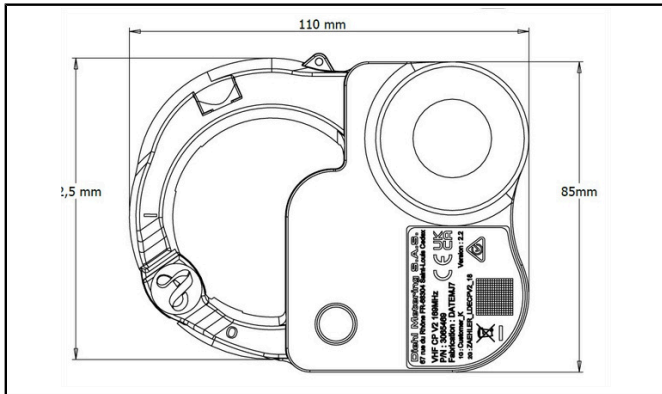
CONFIGURATION

VHF CP V2	
Interface	NFC
Functions	1, 24 or 96 index(es) per day Historical index value Flowrate and temperature histograms
Alarms management	Breakage detection Minimum flowrate (leak detection) Maximum flowrate Backflow Frost Mechanical tampering

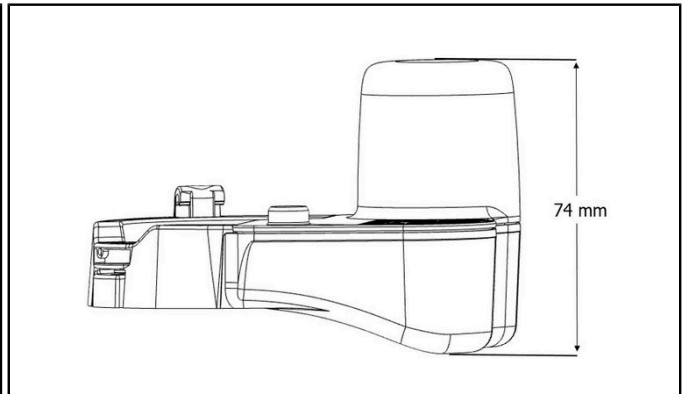
COMPATIBILITY

VHF CP V2	
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)
Electronic accessory	IZAR BE PULSE

DIMENSIONS



Top view



Side view

VHF CP V2

Length	mm	110
Height	mm	74
Width	mm	85
Weight	g	232

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

Diehl Metering S.A.S.
Head Office
67 rue du Rhône
BP 10160
FR-68304 Saint-Louis Cedex
Phone: + 33 (0)3 89 69 54 00
Fax: + 33 (0)3 89 69 72 20
metering-France-info@diehl.com

International Sales
67 rue du Rhône
BP 10160
FR-68304 Saint-Louis Cedex
Phone: + 33 (0)3 89 69 54 21
Fax: + 33 (0)3 89 69 54 22
metering-France-export@diehl.com
www.diehl.com/metering

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