

**ALTAIR**

ALTAIR V4 IS  
Rotary Piston  
Meter



# ALTAIR V4 IS Rotary Piston Meter Owner's Manual

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**ALTAIR**

**ALTAIR V4 IS Rotary Piston Meter**



## APPLICATION

ALTAIR V4 IS is a volumetric meter designed to measure the consumption of domestic cold water. Compact and robust, ALTAIR V4 IS is easy to install and perfectly suited for varying water qualities. Its integrated radio module enables remote reading of the index and alarms of the meter in mobile mode (walk-by) or fixed network.

Developed within the framework of the MID, it complies with the European regulations and holds sanitary conformity certificates.

## FEATURES

- DN15
- $Q_3=2.5 \text{ m}^3/\text{h}$
- MID approval up to  $R=800$
- Starting flow rate:  $0.4 \text{ l/h}$
- Composite and brass body
- IZAR integrated 868 MHz radio, PRIOS protocol
- Battery lifetime up to 10 years
- IP54 – not suitable for wet environment

## METROLOGICAL DATA

Nominal diameter	DN	mm	15	15
Length	L	mm	110	110
Housing			Brass	Composite
Nominal flow rate	Q3	m <sup>3</sup> /h	2.5	2.5
R standard*	Q3/Q1		160	160
Starting flow rate		l/h	0.4	0.4
Minimum flow rate	Q1	l/h	15.62	15.62
Transition flow rate	Q2	l/h	25	25
Maximum flow rate	Q4	m <sup>3</sup> /h	3.125	3.125
Head loss at Q3		bar	0.59	0.59
Head loss at Q4		bar	0.92	0.92
Kvs (deltaP=Q <sup>2</sup> /Kv s <sup>2</sup> )			3.25	3.25

Other values on request.

## APPROVAL

ALTAIR V4 IS	
MID approval	LNE-6250   Type A2
Standards	EN 14154   ISO 4064   OIML R49
Sanitary conformity	ACS   WRAS

## REACH

Information pursuant to Article 33 (1) of Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006:

This product series contains articles with the following substances in a concentration of more than 0.1% weight by weight (w/w): – Lead (CAS no.: 7439-92-1)

## TEMPERATURES AND PRESSURE

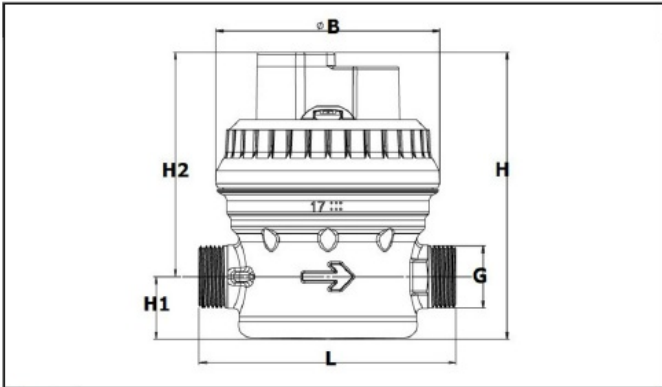
ALTAIR V4 IS			
Water temperature		°C	+0.1 ... +50
Operating ambient temperature		°C	+5 ... +50
Storage temperature		°C	-20 ... +55
Nominal pressure	PN	bar	16
Degree of protection			IP 54

TECHNICAL DATA IZAR INTEGRATED RADIO

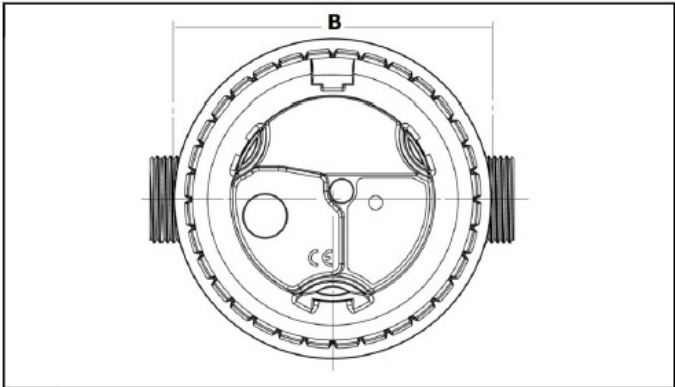
ALTAIR V4 IS		
Communication protocol		PRIOS
Frequency	MHz	868.95 (R3 mode)
Standards		EN 300 220   CE   RED directive   EN 13757-3/-4
Sending interval		Every 32 seconds
Transmission power	mW	16
Transmission mode		Unidirectional
Radio range		Up to 500 m depending on the environment
Power supply		3 V lithium battery
Typical battery lifetime		Up to 10 years*
Integrated functions		Current index   Historical index value   Remaining battery lifetime
Alarms management		Leak detection   Meter stopped   Overflow   Underflow   Backflow

\* Under standard conditions of use and temperature. Theoretical lifetime, not guaranteed.

DIMENSIONS



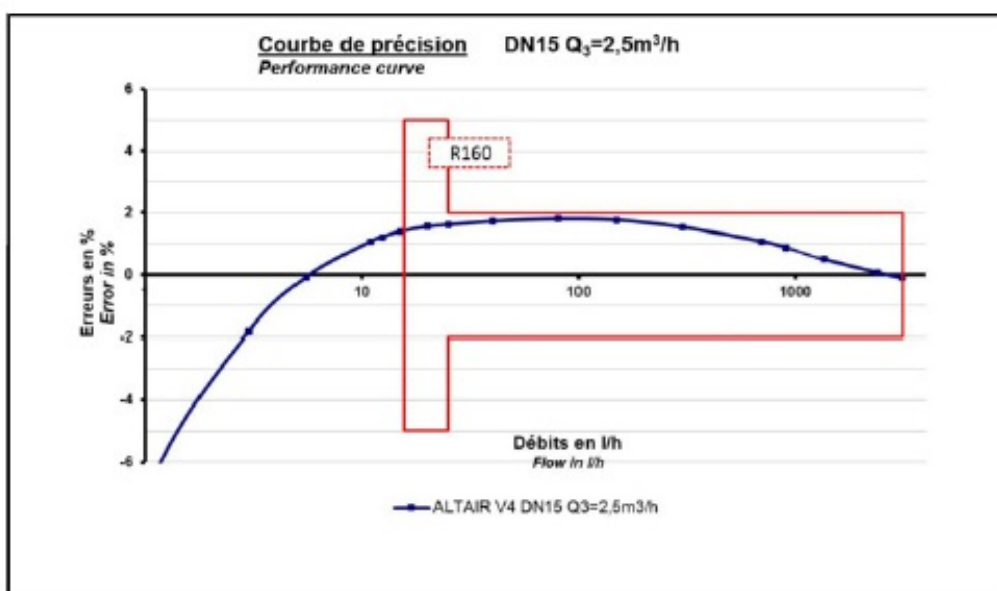
Front view



Top view

Nominal diameter	DN	mm	15	15
Length	L	mm	110	110
Housing			Brass	Composite
Width	B	mm	96.2	96.2
Height	H	mm	123	128
Height	H2	mm	96	100
Height	H1	mm	27	28
Thread connections	G	inch	3/4"	3/4"
Weight		kg	0.89	0.479

## PRECISION CURVE



This technology doesn't require straight length.

## OPTIONS

- Non-return valve
- Pair of connectors

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[www.diehl.com/metering](http://www.diehl.com/metering) Subject to technical adjustments

## Documents / Resources



[ALTAIR ALTAIR V4 IS Rotary Piston Meter](#) [pdf] Owner's Manual  
ALTAIR V4 IS Rotary Piston Meter, ALTAIR V4 IS, Rotary Piston Meter, Piston Meter

## References

- [User Manual](#)

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