

AMFLO® MAG Basic

Electromagnetic flowmeter

Applications

Electromagnetic flowmeters are designed for measuring the flow of electrically conductive mediums. The main applications can be found in the sectors cooling, building automation, cooling water and cold water measurement.



Features

- Nominal sizes DN 125 - 250, PN 16
- Compact measurement system without moving parts
- Measurement dynamic 1:100
- Small pressure loss
- Integrated electronics
- Power supply 24 VDC, e. g. by calculator

Benefits

- Large measurement range
- Long term measurement stability
- High accuracy for energy optimization
- Maintenance-free, trouble-free
- No configuration needed

Technical data

Nominal sizes	DN 125 - 250
Electrodes	2 signal electrodes and 1 ground electrode, stainless steel 1.4571
Fluid	Water and other fluids*
Nominal pressure	PN 16, JIS 10K, ANSI 150
Liner	Hard rubber
Flange and outer casing	Steel painted (Flange according to EN 1092-1)
Protection class	IP 67
Fluid temperature range	T _{Fluid} = 0 - 80 °C
Ambient temperature	T _{Amb} = 5 - 55 °C
Min. electrical conductivity	40 µS/cm
Accuracy	±0.5 % (±0.004 m/s slower than 0.5 m/s)
Digital output	max. 200 Hz (pulse duration 2.5 ms at 200 Hz), SSR (Solid State Relais) passive, max. 48 V / 50 mA
Range of measurement	0.04 - 10 m/s (equivalent about 1/2 q _i - q _s)
Connections	Terminals inside protected junction box
Power supply	24 VDC +/- 10%, 150 mA (e. g. by calculator CALEC®)

* Please check the chemical resistance of the device (liner, electrodes) for the used medium!

Range of measurement (approved according to EN 1434 class 2, measurement dynamic 1:100)

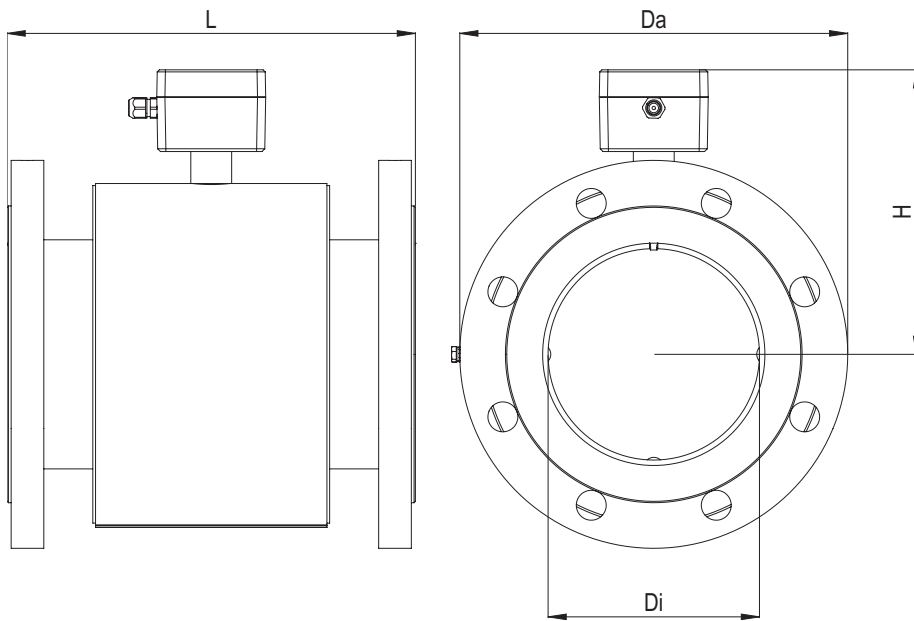
Nominal diameter DN	mm	125	150	200	250
	inch	5	6	8	10
q _i (minimal flow)	m ³ /h	4	6	10	16
q_p (nominal flow)	m³/h	400	600	1000	1600
q _s (maximal flow)	m ³ /h	440	660	1100	1800
Typical operating range (~1 to 5 m/s)	m ³ /h	50 - 220	65 - 300	120 - 570	200 - 900
Pulse value	l/pulse	1	2	2	5

Approval, declaration of conformity and verification

This device is approved according to the MID directive 2004/22/CE and the special cooling approval according to the PTB TR K7.2. Instruments for commercial heating and cooling measurements are subject to commercial verification in most countries. Equipment subject to this obligation must be recalibrated resp. reverified after expiry of the calibration period. The operator is responsible for compliance with the regulations.

Dimensions

Nominal diameter DN	mm	125	150	200	250
	inch	5	6	8	10
L	mm	250	300	350	450
Di	mm	126	155	203	256
Da	mm	250	285	340	405
H	mm	194	209	243	270
Weight	kg	20	27	41	62



Measuring error limits

