

hydromex

AcquaMAG[®] F4022



Induction flow meter for technological purposes

Compact and split design

Variable power supply range

Empty pipe monitoring function

MOD-BUS RTU data communication via RS485

Customizable functions

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Induction flow meter AcquaMAG® F4022

is an industrial multi-purpose two-way electronic water meter, suitable for use in water management technologies for measuring the flow and flow volume of drinking and waste water up to a temperature of 50°C as a working meter.

Flow measurement is based on the principle of electromagnetic induction.

The measuring tube does not contain moving parts, i.e. it causes almost no pressure loss in the pipeline, and the flowmeter can also measure heavily polluted liquid containing solid particles, e.g. sewage or sludge.

The device is offered in a flange version, the construction lengths are the same as classic water meters of the same dimension.

It is also available in a so-called separate version, where the electronic unit is connected to the sensor with a special cable up to 25 m long.

In the standard design, the flowmeter is equipped with impulse outputs for the transmission of information about the flow volume, with the possibility of configuration also as a frequency, a standardized analog output of 4-20 mA for controlling the technology according to the instantaneous flow rate and an RS 485 data line with the MOD-BUS RTU protocol.

Two separate limit outputs make it possible to monitor the exceeding of the maximum or minimum flow rate.

The configuration can be easily adapted to operational needs on site, manually via the user interface.

Nominal diameter	DN 15 to DN 700
Nominal pressure	PN 10 to PN 16
Pipe connection	EN, DIN, ANSI flanges
Measuring tube lining	rubber, PTFE
Sensing electrodes	stainless steel AISI 316L
Measurement error	according to OIML R 49 class 2
Distinction	0.01 m ³
Ambient temperature	0 to 50°C
Environment class	M1/B/E1
Power supply	85 to 265 V AC (optional 24 V DC)
Power consumption	10 VA max.
Outputs	1x active + 2x passive pulse, galvanically isolated, programmable (NPN transistor, load 30 V/30 mA max.) 1x active current, programmable (4-20 mA into a load of 500 Ohm max.)
Communication	keyboard, graphic display, RS485, MODBUS RTU protocol
Degree of protection	sensor IP 67/ converter IP 65



DN	Q3	Q1	L	PN	T
mm	m ³ /h	m ³ /h	mm	MPa	°C
15	6,3	0,16	165	1,6	30/50
20	10	0,25	165	1,6	30/50
25	16	0,4	200	1,6	30/50
32	25	0,63	200	1,6	30/50
40	40	1	200	1,6	30/50
50	63	1,25	200	1,6	30/50
65	100	2,5	200	1,6	30/50
80	160	4	200	1,6	30/50
100	250	6,25	250	1,6	30/50
125	400	10	250	1,6	30/50
150	630	15,8	300	1,6	30/50
200	1000	25	350	1,6	30/50
250	1600	40	450	1,0	30/50
300	2000	40	500	1,0	30/50
400	2000	40	600	1,0	30/50
500	2000	40	600	1,0	30/50
600	2000	40	800	1,0	30/50
700	2000	40	800	1,0	30/50



Separate version electronic unit

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