Description

The electromagnetic flow meter, type IZMAG™, is suitable for the measurement of both the flow rate and the volume of all kinds of liquids, even liquids of minimum conductivity values.

The IZMAG™ is completely made of stainless steel. An illuminated display belongs to its standard equipment.

Moreover, two pulse outputs and an analog output are available as standard functions. Actions can be controlled by a digital input, e.g. count interruption and zero setting.

Its design and the materials used enable the IZMAG™ to meet even the highest hygienic requirements.

By default the IZMAG™ is delivered in compact all-in-one design (see data sheet D7626-00). A separated version can be optionally supplied (see the image on the right).

Fig.: the IZMAG™ in separated design

Features

- The parameters of the flow meter can be set without opening the housing. Bluetooth interface to parameterize and store the data.
- Quick start and language change offer a simple and user-friendly parameterization.
- The display and the converter can be turned into different directions, always easy-to-read.
- Intelligent software enables high measuring dynamics of a span of 1:100.
- The electronics is permanently monitored by the highly stable electronic “IN-CAL” module.
- The measurement can be carried out in both flow directions.
- Its engineering design makes the IZMAG™ piggable in pipe systems according to DIN 11850 R2.
- Option Profibus DP in 24 V DC version

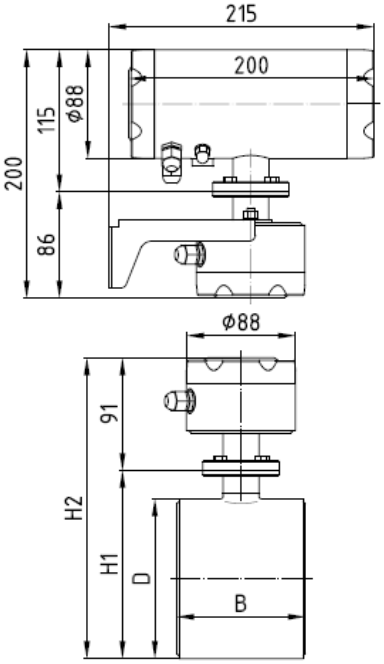
- The integrated empty-pipe detection avoids undefined counts.
- The liner keeps stable, even in case of a suddenly caused vacuum at high temperatures.
- The application of adapters makes it possible to use different process connections.

Technical Data of the IZMAG™

Supply voltage	9…32 V DC, 100…240 V AC, 50…60 Hz -15% / +10%	Electrical power	8,5 watts/V.A.
		Protection class	IP 65
Materials in contact with the product	1.4404 (AISI 316 L) / PFA	Pressure range DN 10 – 100 DN 125 – 150	 0.1…17 bar abs. (PN 16) 0.1…11 bar abs. (PN 10)
Housing material	1.4301 (AISI 304)	Measuring accuracy	± 0.20% [1]
Process connection	Aseptic flange DIN 11864/2, shape A	Display	Graphics LCD, 46 x 23 mm, illuminated
Process adapter (optional)	Welded socket, milk pipe, clamp, DIN flange, etc.	Pulse output (volume)	2x optocoupler 24 V / 20 mA
Ambient temperature	-25…+55 °C, DC power supply -25... +45 °C, AC power supply	Status output	Optocoupler, malfunction or direction
Product temperature	0…120°C 130°C max. for 30 minutes	Interface	CS3-BUS / RS485
		Control input	9…32 V DC, Ri < 3.2 kΩ
Minimum conductivity of the product	15 µS/cm min. [2]	Analog output	(0)/4…20 mA ±0.1 mA active or passive; load: 500 Ω max.
Inner diameter of the milk pipe	According to DIN 11850 R2, piggable	Inlet pipe section	5 x DN
		Outlet pipe section	3 x DN

[1] ±1 mm/s under reference conditions [2] see instruction manual

Dimensions



Nominal width	B [1] [mm]	H1 [mm]	H2 [mm]	D [mm]	Measuring range [L/h]	Weight [kg]
DN 10	104	110	200	90	30…3,000	4.2
DN 15	104	110	200	90	70…7,000	4.0
DN 25	104	110	200	90	180…18,000	3.9
DN 32	104	125	215	105	300…30,000	4.7
DN 40	104	125	215	105	450…45,000	4.6
DN 50	104	150	240	130	700…70,000	6.1
DN 65	160 [2]	150	240	130	1,200…120,000	7.0
DN 80	160 [2]	175	265	155	1,800…180,000	9.4
DN 100	200 [2]	190	280	170	2,800…280,000	11.4
DN 125	250 [2]	240	330	220	4,400…440,000	25.3
DN 150	300 [2]	240	330	220	6,400…640,000	28.3

[1] Depending on the process adapter
[2] Design with reduced fitting length on request