



SISMA

G. GIOANOLA

METERING EFFICIENCY

EMAG

ELECTROMAGNETIC FLOW METER



MODELS FROM DN25 TO DN250

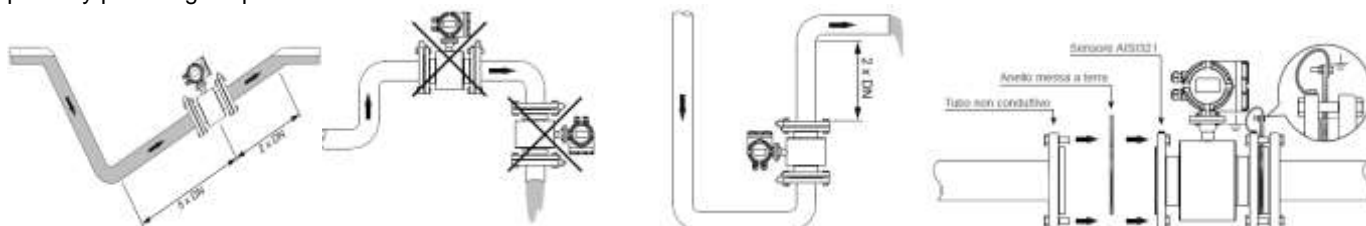
- ❖ Electromagnetic flowmeter suitable for volumetric flow measurement of conductive fluids (min 5 $\mu\text{S}/\text{cm}$) and wastewater consisting of flanged sensor tube and digital converter
- ❖ Suitable for use in various sectors: chemical, paper, food, pharmaceutical, water treatment, environmental protection, water utilities.
- ❖ The main feature of this measuring device is the absence of moving parts inside it, as it is fully pass-through. The advantages are therefore considerable:
 - no pressure drop and mechanical wear
 - possibility of measuring fluids with high solids content
 - fluid measurement independent of viscosity, density, pressure and temperature
- ❖ Optionally available model with separate electronics with IP68 protection measuring tube, 5 m connection cable and IP67 electronics
- ❖ Optional **battery-powered model** available
- ❖ MID-approved version available on request

TECHNICAL FEATURES

Sensor tube temperature range	Process temperature remote version: rubber -10 to +80°C; PTFE -40 to +150°C Process temperature compact ver.: rubber -10 to +80°C; PTFE -40 to +100°C Storage temperature: -40 to 85°C
Supply voltage	85÷265 Vac; 12 Vdc; 20÷30 Vdc / Vac
Flow	Bidirectional on fluids with speeds up to 10 m/s
Reverse flow	Instantaneous measurement and reverse flow totalisation
Technical data sensor DN25 to DN250	
Speed range	0m/s÷10m/s
Relative humidity	0÷100% RH at 65 °C, non-condensing
Mounting position	H,V
Accuracy	±0.5% standard; ±0.2% optional
Maximum possible pressure	MAP 10 - 16 - 40
Repeatability	+/- 0.1 %
Sensor material	SS321 steel
Type of coating	PTFE DN25 to DN250/ Rubber DN65 to DN250
Electrode material	Stainless steel AISI316L (Option Hastelloy B, Hastelloy C, Titanium, Tantalum, Platinum)
Flange material	Carbon steel (Option AISI316)
Protection class	IP67 compact version (hose/electronics) / IP68 (hose only optional) IP67 (electronics) remote version
Technical data converter	
Anticondensation	Anti-condensation filter installed on converter
Electricity consumption	Typical 6W, max. 8W.
Totalisation	Progressive, instantaneous and reverse total metering
Outputs	
4÷20mA:	0÷500Ω
Frequency:	0.1÷10000Hz
Impulsivo:	open collector galvanically insulated 24v, 20mA max
Alarm output:	2 rele, 3A 230Vac N.O
Input signals	RPmag has 2 active 24 Vdc analogue inputs for connection to transmitters (e.g. pressure or temperature) with 2 fi les, and a digital input for connection of an external contact for restarting the integrated batch function, for managing a partial totaliser and for connection of an external vacuum tube sensor.

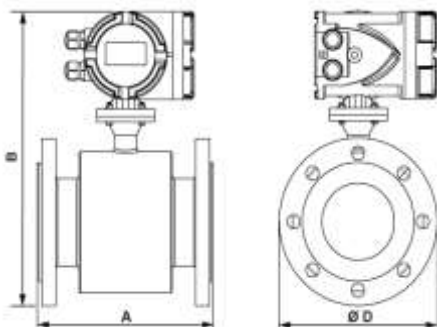
IMPORTANT RECOMMENDATIONS:

The meter must mandatorily be installed ensuring that the section of pipe in which it is positioned is completely full under pressure, possibly providing a siphon.



Strictly observe the minimum and maximum flow rate ranges for each size at a minimum transit speed of 0.5 m/s. (See Flow Range Table) In the case of non-conductive pipes, provide earthing rings (supplied as an option) inserted between the pipe flange and the sensor flange both upstream and downstream

Tabella Range Portate DN 25-250	
DN (mm)	Range min (0.5 m/s) max (10 m/s)
25	0.6 – 18 m ³ /h
32	1 – 30 m ³ /h
40	1.8 – 42 m ³ /h
50	3 – 66 m ³ /h
65	5.8 – 120 m ³ /h
80	8.9 – 180 m ³ /h
100	11 – 282 m ³ /h
125	20– 450 m ³ /h
150	30 – 600 m ³ /h
200	50 – 1100 m ³ /h
250	85 – 1700 m ³ /h



Versione PN 16 - Tabella dimensioni (mm)			
DN	A	B	D
25	200	300	115
32	200	315	140
40	200	335	150
50	200	344	165
65	200	360	185
80	200	375	200
100	250	400	220
125	250	420	250
150	300	460	285
200	350	520	340
250	450	575	405