

# G. GIOANOLA



## EMAG Electromagnetic flowmeter

- ❑ Compact digital system, suitable for conductive fluids (5 $\mu$ S/cm) and sewage waters, consisting in a flanged flow sensor and a digital converter
- ❑ The main applications can be found in the following fields: chemical industry, power generation and distribution, mine, water treatment, paper industry, pharmaceutical industry, food and environmental protection
- ❑ The main feature of model EMAG is the free passage measuring tube, with no moving parts, allowing:
  - no head loss and no mechanical wear
  - measurement of fluids with high content of solids
  - measurement of fluid independently from density, viscosity, temperature, pressure
- ❑ **Model battery-powered**, available on request
- ❑ **MID certified model according to Directive 200/22/EC MI001 & OIMLR49, or MI004 (EN 1434)** available on request



### SUGGESTIONS:

The meter must be installed ensuring that the section of tube in which it is located is completely filled under pressure, possibly providing a siphon.

It is compulsory to observe the minimum and maximum flow range referred to each water meter size at a minimum speed of transit of 0.5 m/s .

In case of non-conductive pipes provide use of grounding rings inserted between the flange of the pipe and the flange of the sensor both upstream and downstream.

<b>Environmental Conditions</b>	Environment Temperature : -25°C + +55°C / Humidity : 5%+90% / Environmental Pressure: 86+106kPa
<b>Working temperature</b>	Remote version: < 80°C (rubber lining) < 100°C (FEP) < 150°C (180°C for short period, PTFE lining) Compact version: < 70°C
<b>Power supply</b>	85+265Vac or 24Vdc
<b>Sensor technical data (sizes from DN10 to DN1600 available)</b>	
Velocity range	0m/s+10m/s
Accuracy	±0.5% of measured value (on request : ±0.2% or ±0.3% )
Measuring tube material	AISI321 stainless steel
Lining	Rubber, PTFE and FEP
Electrodes material	Stainless steel AISI316TI, Hastelloy B, Hastelloy C, Titanium, Tantalum
Flanges material	Carbon steel; AISI316 optional
Protection grade	IP67 for compact version - IP67 / IP68 (on request, tube only) for remote version
<b>Converter technical data</b>	
Power supply	85+265V AC or 24V DC
Electrical power consumption	Less than 20W
Accuracy	±0,5% of measure value, (on request: ±0,2%, ±0,3%)
<b>Analogic output</b>	
output	4+20mA
<b>Frequency and pulse output</b>	
Frequency	For both measuring directions, the max. frequency can be set between 1+ 5000 Hz
Pulse	Frequency up to 15000 pulse/minute for both measuring directions
<b>Optional outputs</b>	4+20mA+RS485 / 4+20mA+hart / 4+20mA+Profibus / 4+20mA+MODBUS RTU

. The company's policy is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice. 02-16



**G. GIOANOLA** SISMA meters

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