

MARINE FLOW METER

MAGYN Series Electromagnetic Flowmeter

ISO9001 Supplier

Class Certificate

Export Supply

General MAGYN Series Electromagnetic Flowmeter conducts measurement based on the principle of the Faraday Electromagnetic Induction Law. When conductive liquid flows in a magnetic field and incises the magnetic flu...



Key Highlights

Category	Marine Flow Meter
Standard	DIN
Material	Can measure conductivity liquid, Without reference to fibre, solid or su...
Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

Technical Specifications

Category	Marine Flow Meter	Model / SKU	MAGYN-Series-Electromagnetic-Flowmeter
Standard	DIN	Material	Can measure conductivity liquid, Without reference to fibre, solid or suspending material contained in liquid.
Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS	Warranty	12 Months unless specified otherwise
Origin	China		

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General

MAGYN Series Electromagnetic Flowmeter conducts measurement based on the principle of the Faraday Electromagnetic Induction Law. When conductive liquid flows in a magnetic field and incises the magnetic flux, Induced electromotive force E will be generated in the conductor, as follows:

$$E=kBDV$$

Where,

B-----Magnetic induction density

k-----Instrument constant

V-----Average velocity in the cross section of a measured pipe

D-----Inner diameter of a measured pipe

When measuring flow rate, the conductive liquid flows at a velocity of V perpendicularly through a magnetic field, which induces a voltage that is direct proportional to the average velocity. The induced voltage signal is measured on two or more poles immediately contacted with the liquid, sent to a convertor through the cable, and then intelligitized before it is transferred to and displayed in a LCD or converted into 4-20mA or 0-1kHz output.

Feature And Usage

Independence: When the temperature, pressure, viscosity and density of the measured fluid changing, the flowmeter will not be influenced.

Easy Maintenance: No moving parts in measuring tube, so easy maintenance.

Wide Application: Can measure conductivity liquid, Without reference to fibre, solid or suspending material contained in liquid.

Easy Installation: Install any angle only need liquid full of the pipe. Straight pipe requires 5D for upper stream and 2D for down stream

Turndown Ratio: The turndown ratio can reach to 1: 100

Enclosure: For DN15-DN1200 is IP68

High Intelligence: Back light English/Chinese LCD display, Menu setting control, three grades password protection, Two-way measuring available, slight signal removal, Auto flow compensation and other function.

SMT Technical: Intelligence self-detect and self-diagnoses, many kinds of alarming

SMART Excitation: Low power consumer, zero stability, longtime reliability

Multi-Signal Output: 4-20mA or 0-10mA current output, Standard Pulse Output, RS485 computer communication output
Selecting the right lining and electrode material can measure nearly all conductive liquid.

The power supply system has good voltage vibration adaptability.

Main Technical Data

Accuracy: 0.3%, 0.5% and 1.0%

Repeatability: 0.15%, 0.25% and 0.5%

Ambient Temperature: Sensor (Separate Type): -20°C~+70°C

Converter: -20°C~+50 °C

Integral type: -10°C~+50°C

Humidity: 5% ~95%RH (No Frost)

Vibration: Frequency:55Hz

Amplitude:0.55mm

Ambient magnetic field: ≤400A/m

Fluid Temperature: Integral Type ≤+80°C

Separate Type(Rubber Lining)≤+80°C , (PTFE Lining) ≤+120°C

Nominal Pressure:0.6MPa~32MPa **Liquid Conductivity:** ≥5u/cm

Power Supply: DC24V±5% or 100-240VAC, 47~63Hz

Enclosure: IP68(For separate type with synthetic rubber lining only)

Output Signal: Standard Pulse output

Communication: RS485 Computer Interface and HART Protocol

Alarm Output: Alive

Electrode Material: Stainless Steel, Hastelloy, Titanium, Tantalum, Carbonized Tungsten, platinum

Lining Material: PTFE, Synthetic Rubber

Flange Material: Cast Steel and Stainless Steel

Measuring Tube: Stainless Steel

Anti-explosion Grade: Exdeia II CT4, Anti-explosion No.: GYB03542

Flange Standard: Any Flange Standard can be custom-made.