

PRODUCT OVERVIEW

FLOW MEASUREMENT

MAC Sensor Co.,LTD. Changsha City,Hunan,China http://www.macsensor.com TEL: +86-731-89975636 / 89975645

MAC Sensor Co.,LTD.



LD Electromagnetic Flow Meter

PROFILE

LD electromagnetic flowmeter can be used to measure the volume flow of conductive fluid in a closed pipeline. It is widely applied in the flow measurement and control in the fields of chemical and petroleum industry, metallurgy industry, water and waste water, agriculture and irrigation, paper making, food and beverage industry and pharmaceutical industry



FEATURES

- Measurement not affected by the variation of flow density, viscosity, temperature, pressure and conductivity. High accuracy measurement is guaranteed according to the linear measurement principle.
- No obstacle in the pipe, no pressure-loss and lower requirement for straight pipeline.
- DN 6 to DN2000 covers a wide range of pipe size. A variety of liners and electrodes are available to satisfy different flow characteristic.
- High definition LCD display with backlight.
- RS485 or RS232 interface supports digital communication.
- Not only for general processes, but also for the measurement of ore pulp, mud, coal slurry, paper pulp and paste liquid
- •The converter has self-diagnosis alarm output, no-load detection alarm output, flow upper and lower limit alarm, batch control (need to be customized) and other alarm output functions.
- •High-pressure electromagnetic flow sensor with PFA lining technology, resistant to high pressure and negative pressure, especially suitable for petroleum, chemical and other industries.
- Explosion-proof instruments can be used in corresponding explosion-proof places.

TECHNCAL SPECIFICATION

Model Parameter	LD	
DN size(mm)	3, 6, 10, 15, 20, 25, 32, 40, 50, 65, 80, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000	
Maximum flow speed	15m/s	
Output signal	Analog output	Two-way, fully isolated 0~10mA/4~20mA Load resistance: 0~1.5kΩ when 0~10mA; 0~750Ω when 4~20mA
	Frequency output	Forward and reverse flow output, the upper limit of output frequency can be set within 1~5000Hz. Open collector bidirectional output of transistor with photoelectric isolation. The external power supply is not greater than 35V, and the maximum current of the collector when it is turned on is 50mA
	Alarm Output	Two-way open collector alarm output with photoelectric isolation transistor. The external power supply is not greater than 35V, and the maximum current of the collector when it is turned on is 250mA. Alarm status: fluid empty pipe, excitation disconnection, flow overrun
	Pulse output	Forward and reverse flow output, the output pulse upper limit can reach 5000CP/S. Pulse equivalent is 0.0001~1.0m ³ /P. The pulse width is automatically set to 20ms or square wave. Open collector output of transistor with photoelectric isolation. The external power supply is not greater than 35V, and the maximum current of the collector when conducting is 50mA
Power Supply	AC220V 50HZ/DC24V/DC12V/3.3V battery power supply	
Digital communication	Optional RS232C or RS485 serial communication interface, HART communication protocol	
Accuracy	0.5%	
Display and buttons	Display in Chinese and English, can display instantaneous flow, accumulated flow and alarm display (excitation open circuit alarm, empty pipe alarm, flow over limit alarm). Four membrane touch switches for data setting	
IP rating	IP65 standard IP68 by customized for the transmitter of the separated versions only	
Explosion-proof	Ex d ia [ia Ga] q IIC T6 Gb	

DIMENSIONS

DN L(PTFE) L(Rubber/PFA/F46) D d1 n*d0 4*14 / / 4*14 / 4*14 / 4*14 аннни Œ / 4*18 4*18 4*18 Σ 4*18 8*18 8*18 8*18 8*23 12*23 12*26 12*26 16*23 16*26 пнннн 20*26 $\bigcirc \bigcirc$ 20*26 n*d0 20*25 24*25 D 24*30 d_{j} 24*30 28*30 32*34 36*34 40*34 44*41 48*48

Flange connection structure and installation dimensions

1. Instrument size error ± 2mm

2. The rated flange pressure of this table DN10-DN300: 1.6MPa DN350-DN500:

1.0MPa ,DN600-DN2200: 0.6MPa.

3. Other flange standards are customized.