HG SERIES ELECTROMAGNETIC FLOWMETERS





Model No. : HG4000-W Model Type : Wafer Type



Model No. : HG4000-SC Model Type : Sanitary Type



Model No. : HG4000-F Model Type : Flange Type



Model No. : HG4000-SE Model Type : Separation Type

(Thread)

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Model No. : HG4000-W/SC/F/SE

The HG 4000 is designed for a wide range of industrial applications and electromagnetic inductance is used to measure the flow of liquids through the meter. It is a highly reliable instrument that can accurately measure the flow of liquids with little pressure drop and long-term stability with mechanical parts within the weighing section. It can be used in a wide variety of fluids, allowing the instrument to be used under the most stringent conditions as well as strong chemistries.

Features:

- Applicable to chemical and food industry and potable water treatment (stainless steel pipe)
- Operation settings with membrane (flow conversion factor, communication type and transmission rate, measurement dynamics, etc.) or application software
- Flow tube interchangeability (each flow tube has its own calibration constant)
- Accessories: installation sets (iron, stainless steel or to customer specifications)
- Latest application software
- Bidirectional flow measurement (separate counters for each direction)
- Self-diagnosis : Display instrument status
- Volume monitoring for up to 5 resettable flow totalizers (counters)
- Monitoring the maximum flow reached within the time interval

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	GENERAL SPECIFICATIONS
Measuring range	1:40 (±0.5% for MPE standard), 1:500 (Q0=0.2% Qmax)
Accuracy	±0.5% (±0.003m/s) in range from Qmin to Qmax
Minimum Liquid Conductivity	>5µS/cm (common liquid), ≥20µS/cm (demineralized water)
Power Supply	230VAC (+10, -15%), 50~60Hz, optionally 120VAC, 24VAC, 24VDC
Power Demand	10 VA
IEC 536 Protection Class	
Ingress Protection Rating	IP67
Meter Finish	Powder paint (RAL 8023)
Ambient temperature range	0~70 °C, recommended 15~55°C
Pulse Output 1	In range 0.0001~1600 p/dm³ (maximum value depends on flowtube inner diameter)
Pulse Output 2	State – Signalization of the negative flow, Pulse – Negative volume (Bidirectional flow)
Pulse Inputs	2 x range (0.0001~1000 p/dm³) to display flow and/or volume measure by external
Empty Pipe Detection	Yes (optional)
Communication Modules	RS485, RS422, RS232, M-Bus, etc (optional)
Communication Protocols	SIMPLE, ModBUS, BitBUS, ASCII, MBUS
Analog Outputs	4~20mA, 0~10V (optional)
Archive	Hourly, monthly, etc (optional)

	WAFER FLOWTUBE SPECIFICATIONS	
Nominal Inner Diameter	DN10 ~ DN150	
Flowtube Liner	PTFE	
Electrodes	Stainless steel 316L (1.4571), hastelloy C, platinum, tantalum, titanium	
Nominal Pressure	PN25	
Flowtube Design	Compact , split – 4m cabling (optionally uo to 40m)	
Flowtube Flnish	Powder paint (RAL 7043)	
Range of Measure Liquid	0~150 °C (PTFE)	
Ingrree Production Rating	IP67	0.4

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HG SERIES ELECTROMAGNETIC FLOWMETERS





Model No. : HS-TLD-SE Model Type : Separation Type

Features:

- Flow speed range: 0.1 ~ 15m/s
- Flow speed resolution: 0.5mm/s
- AC high frequency switching power, voltage range: 85VAC ~ 250VAC
- DC 24V switching power supply, voltage range: 20VDC ~ 36VDC
- Output function: 4 ~ 20mA, Pulse
- Network function: MODBUS, GPRS, PROFIBUS, HART communication (optional)

The HS-TLD electromagnetic flowmeter is a next-generation supply flowmeter based on the Faraday electromagnetic induction principle. The measurement accuracy is not affected by the temperature, density, viscosity and conductivity (> 5 s/cm) of the measured medium and maintains a constant accuracy. The electromagnetic flow meters can be used to measure general water, wastewater, strong acids and strong alkalis and other corrosive liquids and muds.

	SPECIFICATIONS
Size	DN10~DN2800
Medium	Conductive liquid, surry
Medium temperature	E grade < 60°C, H grade < 180°C
Conductivity	≥5 u S/cm
Accuracy	±01%, ±0.17%
Rated pressure	0.6, 1.0, 1.6, 2.5, 4.0, 6.4 Mpa (or specified by customer)
Display	Flow, rate, totalizer, velocity, flow rate ratio
Signal output	4~20mA current output, pulse output, RS-485 Hart
Power supply	AC: 85V ~ 265V, DC: 18V ~ 38V
Converter type	Integral, remote
Protection grade	IP65 . IP68
Explosion proof	Ex deibmb IIC T3~6
Velocity	0.05~12m/s (0.1 ~ 15m/s as required)
Liner	CR/F4(PTFE) / 46(FEP) / PFA
Flowing direction	Forward, Reverse
Electrode material	316L, Pt, Ta, Ti, HB, HC, WC
Electrode number	3~6 pcs
Flange material	SS/CS
Alarm (normal open)	Empty, excitation, upper/lower limit
Ambient	-30 ~ +60°C, Humidity : < 90%
Protocol	RS-485 / Hart