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Our experienced consultants will assist you in choosing the correct flow meter for your application. And they will be pleased to offer installation guidance to assure that the flowmeter selected will perform as accurately as possible. Additionally, they will stand ready to support you with any after-sale assistance that you may require.

Electromagnetic Flowmeter (Magnetic Flowmeter)

General Specification

The electromagnetic flowmeter (magnetic flowmeter) are excellent product with outstanding reliability and ease of operation, developed on the basis of decades of field-proven experience.

Electromagnetic flowmeters are suitable for measuring the flow of almost all electrically conducting liquids, pastes and slurries.

A prerequisite is that the medium must have a minimum conductivity of 5 uS/cm. The temperature, pressure, density and viscosity have no influence on the result .

The main applications of the electromagnetic flowmeters can be found in the following sectors:
Water and wastewater
Chemical and pharmaceutical industries
Food and beverage industry
Mining, aggregates, and cements industries
Pulp and paper industry
Steel industry
Power, utility and chilled water industry

The wide variety of combinations and versions from the modular system means that the ideal adaptation is possible to each measuring task.

◆ FEATURES

- Fast response and high stability.
- High Accuracy, 0.5%, 0.2% for flowrate
- Dual cavity housing to separate electronics part from wiring part.
- AC power supply common use (85~265vac).
- High visible backlit LCD for easy operation.
- Communication: e.g. RS485, RS232C, HART, Profibus, MODBUS etc.
- BI-direction measuring and totalizing.

◆ STANDARD SPECIFICATIONS

- Measuring Range
  The velocity range is 0.3m/s to 15m/s. The minimum measurable speed can be one percent (1%) of the full range.

- Analog Output
  Current output: fully isolated 0~10mA/4~20mA
  Load resistance: o to 1.5k; 4~20mA, 0~750 at 4~20mA
  Base error: add minus 10uA on top of the measurement error.

- Frequency Output
  Frequency output is proportional to the flow percentage of the full range. It Provides fully isolated transistor open collector frequency output ranged from 1 to 5000hz, the external Dc power supply should not exceed 35V and maximum collector current is 250mA.

- Pulse output
  The converter can output up to 5000cp/s pulse series, which is dedicated to external totalization. Pulse factor is defined as pulse width is selectable from 16ms, 33ms, 66mm, and so on. Photo-coupler isolated transistor open collector circuit is used for pulse output. The external Dc power supply should not exceed 35V and maximum collector current is 250mA.

- Showing Flow Direction & Range
  The converter is capable of measuring both forward and reverse flow and recognizing its direction. The converter output 0Vlow level for forward flow,while+12V high level for reverse flow.

▲ Alarm Output
Two channel of photo-coupler isolated open collector circuit are used for alarm signal output. There are two alarm outputs: high limit alarm and low limit alarm. The external DC power supply should not exceed 35V and maximum collector current is 25OmA.

▲Communication:
RS232C, RS485, HART, PROFIBUS, MODBUS
The RS232C, RS485, HART, PROFIBUS, MODBUS Communication interface are embedded in the converter. Surge arrestor is optional to protect the interface and converter.

▲Damping Constant: Damping time optional from 0.2 to 100s.
▲Input Contact: External contact ON or OFF, signal can be used to remotely control the start/stop or reset of internal counter.
▲Display Function:
Flowrate can be displayed either in engineering units or in percent of span. Totalized volume in any engineering unit can be displayed by setting a totalizing factor.
▲Self Diagnostics Function:
Converter failure, flow tube failure, erroneous setting, etc. can be diagnosed and displayed.
▲Data Security During Power Failure: Data storage by EEPROM-no back-up battery required.
▲Electrical Connection:M20*1.5 ISO M20*1.5 FEMALE
▲Case Material: Aluminum alloy
▲Coating: Polyurethane corrosion-resistant coating. Protection: IP65.IP66, IP67, IP68
▲Sensor Material:
Housing: Stainless steel (SUS304), Carbon steel (SPCC)
Flange: Stainless steel (SUS304) Carbon steel (SS304)
Pipe: Stainless steel (SUS304)
▲Wetted Part Material: Lining: Rubber, PTFE, PFA
Electrode: Stainless steel (SUS316), Hastelloy C, Hastelloy B, Titanium, Tantalum, Platinum
▲Normal Operating Conditions:
Ambient temperature: -20 to 60, Ambient Humidity: 5 to 95%RH
Power Supply Voltage:85 to 265VAC, Power Supply Frequency:47 to 63HZ
Fluid Conductivity:20Us/cm at least

Electromagnetic Flowmeter high accuracy ensured Flow Range for initial reference only.
Flow range out of the following sheet are also available.

Size	Min flow rate(m3/h)	Max flow rate(m3/h)
DN10	0.2 m3/h	2m3/h
DN15	0.4m3/h	5m3/h
DN20	0.6m3/h	8m3/h
DN25	0.9m3/h	12m3/h

DN32	1.5m3/h	20m3/h
DN40	2.3m3/h	30m3/h
DN50	3.5m3/h	50m3/h
DN65	6m3/h	80m3/h
DN80	9m3/h	120m3/h
DN100	14m3/h	200m3/h
DN125	22m3/h	310m3/h
DN150	32m3/h	450m3/h
DN200	57m3/h	800m3/h
DN250	88m3/h	1200m3/h
DN300	130m3/h	1800m3/h
DN350	173m3/h	2500m3/h
DN400	226m3/h	3200m3/h
DN450	287m3/h	4000m3/h
DN500	354m3/h	5000m3/h
DN600	Negotiable and customized	
DN ----	Negotiable ----	
DN3000	Negotiable and customized	

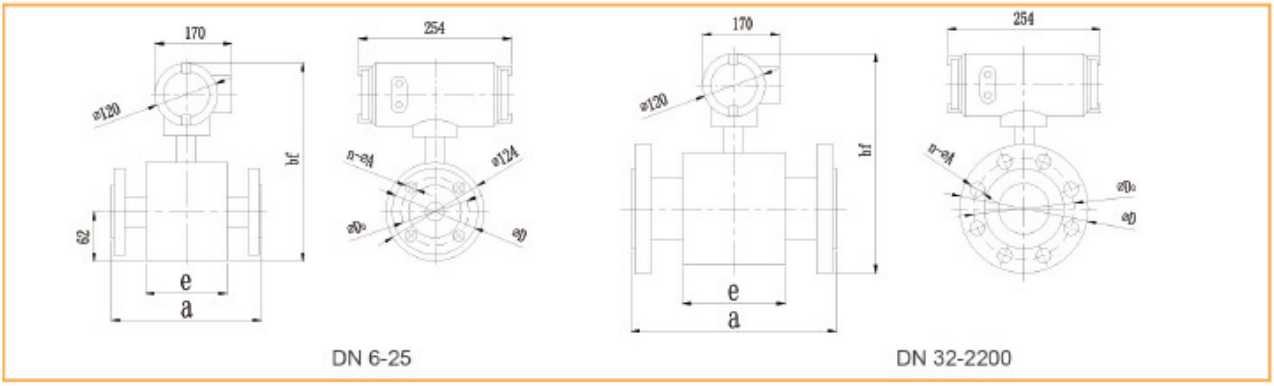
Flowmeter Model Description and Choosing

Please mark on the Specs sheet with "√ " and data

Name	Specs	Description
Instrument type	√	Intelligent electromagnetic flowmeter
Measured pipe diameter		For example:100 represents DN100
Electrode form		Standard stationary type
Electrode material		Stainless Steel (316L)
		Platinum Pt
		Hastelloy B(HB)
		Tantalum Ta
		Titanium Ti
		Hastelloy C(HC)
Lining material		Chloroprene rubber
		Polyurethane rubber
		F4 (PTFE) Polyfluortetraethylene

		F46(FEP) Poly Tetrafluoroethylene-propylene
Rated pressure		DN10-80 (4.0Mpa)
		DN100-150 (1.6Mpa)
		DN200-1000 (1.0Mpa)
		DN1100-2000 (0.6Mpa)
		DN2200 (0.25Mpa)
Working temperature of medium		<60℃
		<120℃
Grounding		Built-in grounding electrode
Grade of protection		IP65
		IP68
Converter type		Integral type
		Split type
Case material		Carbon steel
		Stainless steel
Instrument flange material		Carbon steel
		Stainless steel
Installing timing flange		Without
		With
Power supply source		220VAC
		24VDC
Instrument range		For example: (200) represents maximum Flow corresponding to 20 Ma
Remark		Write all your requests here in details

Outline Dimensions of Integral Flowmeter for your initial reference only:



DN	Rated pressure (MPa)	Instrument outline dimension (mm)			Flange connection size (mm)		
		a	bf	c	D	D₀	n×A
6	4.0	102	252	62	76	58	4-Φ7
10		150	322	82	90	60	4-Φ14
15		150	322	82	95	65	4-Φ14
20		150	322	78	105	75	4-Φ14
25		150	312	78	115	85	4-Φ14
32		150	327	74	135	100	4-Φ18
40		150	335	74	145	110	4-Φ18
50		200	354	86	160	125	4-Φ18
65		200	366	92	180	145	8-Φ18
80		200	385	92	195	160	8-Φ18
100	1.6	250	406	114	215	180	8-Φ18
125		250	436	114	245	210	8-Φ18
150		300	465	136	280	240	8-Φ23
200	1.0	350	518	156	335	295	8-Φ23
250		400	570	202	390	350	12-Φ23
300		500	620	230	440	400	12-Φ23
350		500	675	278	500	460	16-Φ23
400		600	733	320	565	515	16-Φ25
450		600	782	374	615	565	20-Φ25
500		600	835	388	670	620	20-Φ25
600		600	940	408	780	725	20-Φ30
700		700	1048	520	895	840	24-Φ30
800		800	1160	580	1010	950	24-Φ34
900		900	1260	660	1110	1050	28-Φ34
1000		1000	1370	720	1220	1160	28-Φ34
1200	0.6	1200	1585	1130	1405	1340	32-Φ34
1400		1400	1810	1260	1630	1560	36-Φ36
1600		1600	2040	1450	1830	1760	40-Φ36
1800		1800	2250	1640	2045	1970	44-Φ39
2000		2000	2460	1820	2265	2180	48-Φ42

You can also get tailored flanges and tailored dimensions with calling us.

To get the scientific and cost-effective measuring solution:
1st step:
Choosing the proper flow meter for your application.
2nd step:
Right installation to assure that the flowmeter selected will perform as accurately as possible.
3rd step:
Support for after-sale assistance that you may require.

To ensure precise measurement, and best flow instrument selection, please provide as much information as possible about your application.
It will be helpful to include the medium to be measured, the pipe diameter or schedule, the pressure, and the maximum flow rate.
Precise measurement, prestigious business.

We look forward to building a long-term business relationship with you.

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