



Special characteristics

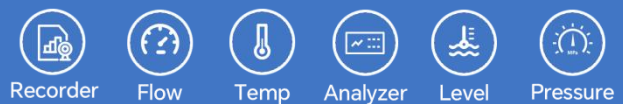
- Flow velocity range: 0.5~5 m/s
- integrated type
- Nominal diameter:
DN15~DN1000
- Range ratio: 10:1
- Current output: 4~20 mA (load
≤750Ω, max current ≤20 mA)

Features

- Integrated design, no moving parts, maintenance-free
- RS485 interface with Modbus RTU protocol
- Unaffected by flow direction, accurate bidirectional metering
- Rotatable header/display for easy reading

Measuring principle

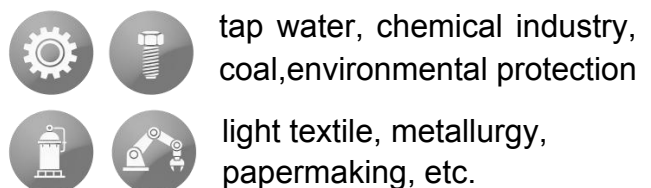
Electromagnetic flowmeter for conductive liquids, multi-signal output, industrial use.



The electromagnetic flowmeter is designed based on the Faraday electromagnetic induction principle and is used to directly measure the flow rate of conductive liquids in closed pipelines.

During on-site monitoring and display, standard current signals, pulse signals, and RS485 digital signals can be output for recording, adjustment, and control, achieving automatic detection and control.

Preferred areas of use are



tap water, chemical industry, coal, environmental protection

light textile, metallurgy, papermaking, etc.

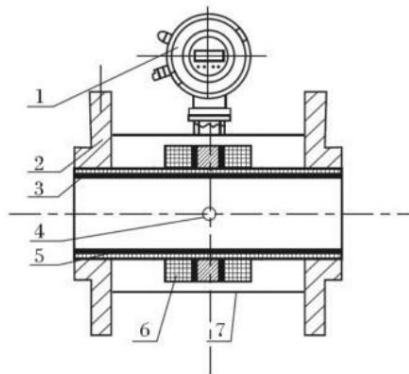
Material and test



Parameters

Measured variable	Direct measured: Flow velocity Calculated value: Volume flow, mass flow.
Flow velocity range	Typically range of flow velocity: 0.5m/s~5m/s
Nominal diameter	DN15~DN1000
Supply voltage	100VAC~240VAC, 50/60Hz;20VDC~28VDC
Power consumption	≤15W
Cable entries	M20*1.5 Cable gland
Reference operating conditions	Medium: water Temperature: 20℃ Pressure: 0.1MPa Installation requirements: Inlet run≥10DN, Outlet run≥5DN
Accuracy	±0.5% of measured value Note: Applicable to flow velocity range of 0.5 m/s to 5 m/s
Repetitiveness	0.16%
Medium Temperature range	CR liner: -10℃~70℃ PU liner: -10℃~60℃ PTFE/F46 liner:-10℃~120℃
Rated pressure	DN15~DN250: PN<1.6MPa DN300~DN1000: PN<1.0MPa
Conductivity	≥50μS/cm
Ambient temperature	Integrated type: -10℃~55℃ Remote type: Converter(-20℃~55℃),Sensor(-10℃~55℃)
Storage temperature	-20℃~55℃
Ingress protection	Transmitter: IP65 Sensor: IP68

■ Dimension



- 1-Converter; 2-Flange;
3-Insulation lining; 4-Electrode;
5-Measuring tube; 6-Excitation coil;
7-Casing

Figure 4

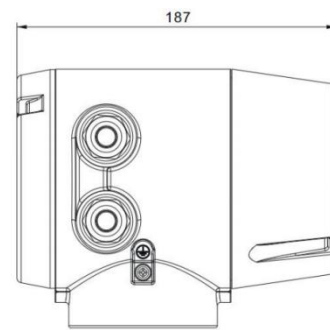
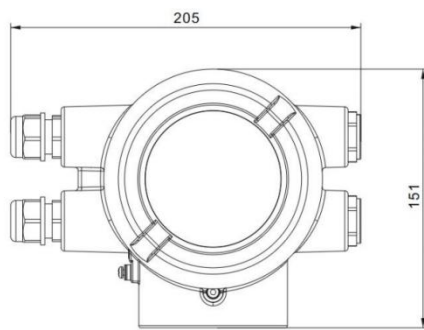


Figure 5 Converter Dimension Diagram (Unit: mm)

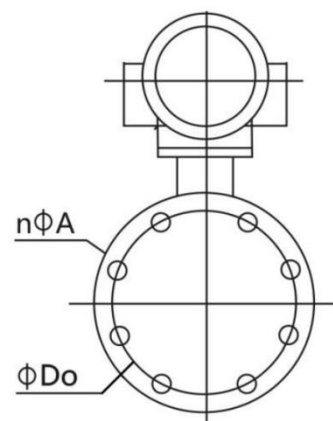
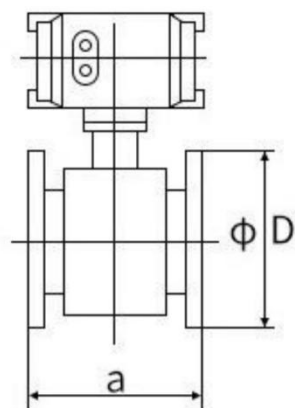


Figure 7 Sensor Structural Diagram

■ Ordering Code

FX-LDG-G-15-J-B-MC-K-AA-M3-N6-WA-00-PB														Description
FK-LDG-G	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nominal diameter	15													DN15(1/2")
	20													DN20(3/4")
	25													DN25(1")
	32													DN32(1.25")
	40													DN40(1.5")
	50													DN50(2")
	65													DN65(2.5")
	80													DN80(3")
	1C													DN100(4")
	1E													DN125(5")
	1G													DN150(6")
	2C													DN200(8")
	2G													DN250(10")
	3C													DN300(12")
	3G													DN350(14")
	4C													DN400(16")
	4G													DN450(18")
	5C													DN500(20")
	6C													DN600(24")
	7C													DN700(28")
	8C													DN800(32")
	9C													DN900(36")
	A0													DN1000(40")
Process connection	J													JB/T 81 flange
	I													ISO2852 Clamp
	X													Others
Nominal pressure	B													PN10
	C													PN16
	X													Others
Process connection material and body material	MC													Carbon steel
	M1													304SS
	XX													Others
Accuracy				K										0.5 Class
Output and power supply					AA									4-20mA+pulse+RS485, 220VAC
					AM									4-20mA+pulse+RS485, 24VDC
					AC									Pulse+4-20mA+RS485+ SPST, 220VAC

	AP								Pulse+4-20mA+RS485+ SPST, 24VDC
Electrode material	M3								316LSS
	MF								Hastelloy B
	MG								Hastelloy C
	T1								Ti
	T2								Ta
	MH								Platinum Iridium Alloy PT
	MJ								WC
Lining material	N6								PTFE
	N1								CR
	N2								PU
	N7								Teflon F46/FEP
Electrical interface, Housing material, and protection level	WA								Integrated Type, M20× 1.5 Cable Gland, Aluminum Alloy, IP65
	WC								Remote Type, M20×1.5 Cable Gland, Aluminum Alloy, IP68
Cable length for the remote type	00								0m
	10								10m
	15								15m
	20								20m
	30								30m
	XX								Others
Accessories	PB								Paired with Carbon Steel Flange
	PC								Paired with 304SS Flange
	PE								Paired with SS316L Grounding Ring