FULLKON

Measuring principle

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

Recorder | Flow | Temp | Analyzer | Level | Pressure

Special characteristics

- Flow velocity range: 0.5~5 m/s
- integrated type
- Nominal diameter: DN10~DN1000
- Range ratio: 10:1
- Current output: 4~20 mA (load ≤750Ω, max current ≤24.5 mA)

Features

- Based on Faraday's electromagnetic induction
- 4–20 mA, pulse, RS485 for automation
- For water, chemical, metallurgy, and more
- Direct proportional flow calculation

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

CE PA ISO

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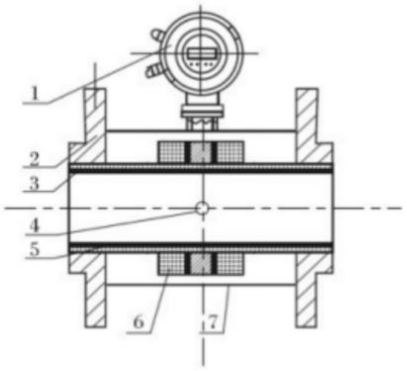
Parameters

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	DN10~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; ±0.3% of measured value (available for selected pipe sizes) 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	DN10~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℃
Protection level	IP65 Converter:IP68

Dimension



1-Converter; 2-Flange;

3-Insulation lining; 4-Electrode;

5-Measuring tube; 6-Excitation coil;

Fig.4

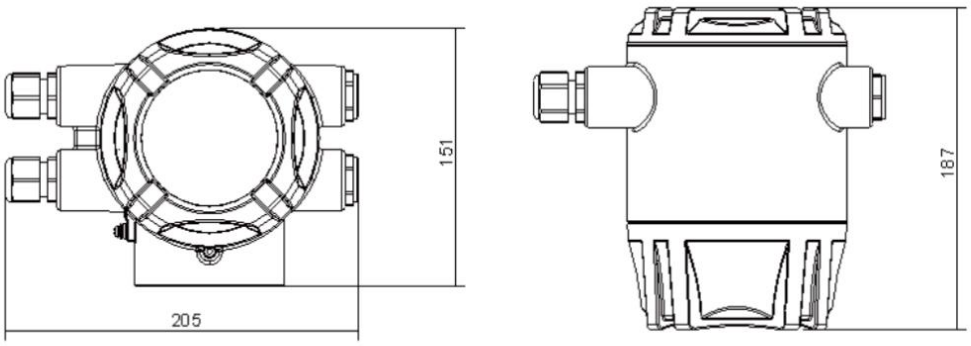
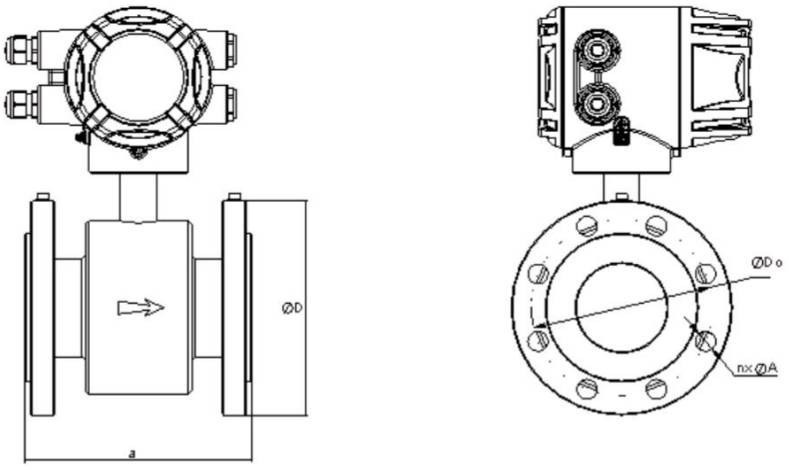


Fig.5 Integrated converter dimensions (Unit: mm)



Ordering Code

FX-LDG-A100-10-J-B-MC-K-AA-M3-N6-WA-00-1-0-PB															Description
FX-LDG-A100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nominal diameter	10														DN10(3/8")
	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 conncetion		J													JB/T 81 flange
		D													GB/T9124 flange
		G													Clamp
		I													ISO2852 Clamp
		A													ANSI B16.5 flange
		S													JIS B2220 flange
		X													Others
Nominal pressure			B												PN10
			C												PN16
			J												JIS 10K
			G												Class 150
			X												Other
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
		AE									4-20mA+HART+pulse+ RS485，220VAC
		AN									4-20mA+HART+pulse+ RS485，24VDC
		AC									Pulse+4-20mA+RS485+ SPST，220VAC
		AP									Pulse+4-20mA+RS485+ SPST，24VDC
		CE									Pulse+4-20mA+HART+ RS485+SPST，220VAC
		CF									Pulse+4-20mA+HART+ 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
					W5						Integrated Type, M20×1.5 Cable Gland, Aluminum Alloy, IP66/67
					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
						25					25m
						30					30m

	XX				Others
Language		1			Chinese
		2			English
		3			Russian
		4			Spanish
		5			Korean
		X			Others
Additional certification			0		None
			C		CCEP
			U		UL
			N		NSF
Accessories				PB	Paired with Carbon Steel Flange
				PC	Paired with 304SS Flange
				PE	Paired with SS316L Grounding Ring