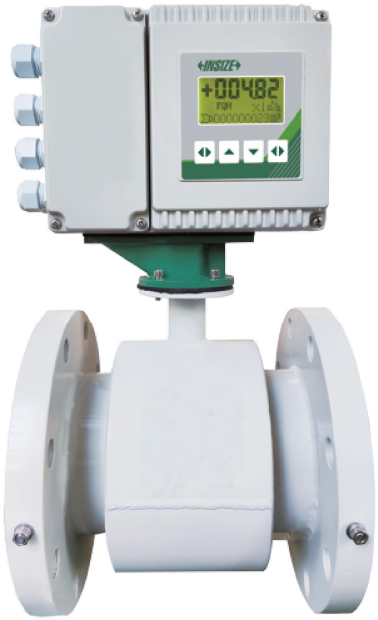
SLURRY ELECTROMAGNETIC FLOWMETERS
CODE 0905-□□□□□□□□□

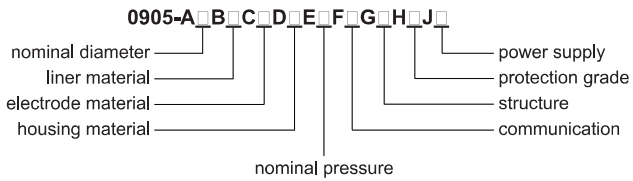
CUSTOMIZABLE

- Adopting square wave excitation and high-frequency excitation can eliminate the interference brought by solid particles in the slurry, ensure accurate measurement of viscous media, and is suitable for slurry media such as cement slurry, mud, gypsum slurry, paper pulp, fruit pulp, syrup, mineral slurry and coal slurry
- No moving parts or flow resistance inside the measuring tube, no pressure loss
- Unaffected by fluid flow direction, it can measure accurately in both forward and reverse directions
- Measures and displays instantaneous flow, flow velocity and totalized flow
- Flow accumulation function: forward total, reverse total, difference total
- Upper and lower flow limit alarm function
- Empty pipe alarm function



0905-A6B1C1D1E2F1G1H1J1

Code explanation:



Code example:

0905-A6B1C1D1E2F1G1H1J1	**A6-**nominal diameter: DN50
	B1-liner material: PTFE
	C1-electrode material: SUS316L
	D1-housing material: carbon steel
	E2-nominal pressure: DIN PN16
	F1-communication: RS485
	G1-structure: integrated
	H1-protection grade: IP65 transmitter+IP65 sensor
	J1-power supply: AC220V/50Hz

SPECIFICATION

Structure	integrated	separated
Applicable medium	various electrically conductive fluids (conductivity of conventional liquids>5μS/cm, deionized water>20μS/cm)	
Excitation current	125mA,187mA, 250mA	
Excitation frequency	25Hz/30Hz	
Accuracy	±0.5%	
Nominal diameter	DN15~DN600	
Liner material	PTFE, PFA, FEP, neoprene, hard rubber, polyurethane (optional)	
Electrode material	SUS316L, hastelloy B, hastelloy C, titanium, tantalum, platinum-iridium (optional)	
Medium temperature	-20°C~60°C	-10°C~160°C
Housing	carbon steel, SUS304, SUS316 (optional)	
Measuring tube	SUS304	
Nominal pressure	flange	DIN PN10/PN16/PN25/PN40 ANSI 150#/300# JSI 10K/20K/30K (optional)
	insertion, tri-clamp, wafer, thread	1.6MPa
Velocity	0.5m/s~15m/s	
Signal output (volumetric flow)	current: 4~20mA (4-wire), frequency: 1~5000Hz, pulse	
Communication	RS485, HART (optional)	
Display	128mm×128mm LCD display, 3-Line menu with 4 operation keys	
Protection grade	IP65 transmitter+IP65 sensor	IP65 transmitter+IP65 sensor IP65 transmitter+IP68 sensor (optional)
Power supply	AC220V/50Hz, DC20~36V (optional)	
Power	<20W	
Operation condition	temperature: -20°C~60°C, humidity: 5%RH~95%RH	

NOMINAL DIAMETER

A1	DN15
A2	DN20
A3	DN25
A4	DN32
A5	DN40
A6	DN50
A7	DN65
A8	DN80
A9	DN100
A10	DN125
A11	DN150
A12	DN200
A13	DN250
A14	DN300
A15	DN350
A16	DN400
A17	DN450
A18	DN500
A19	DN550
A20	DN600

LINER MATERIAL

B1	PTFE
B2	PFA
B3	FEP
B4	neoprene
B5	hard rubber
B6	polyurethane

ELECTRODE MATERIAL

C1	SUS316L
C2	hastelloy B
C3	hastelloy C
C4	titanium
C5	platinum-iridium
C6	tantalum

HOUSING MATERIAL

D1	carbon steel
D2	SUS304
D3	SUS316

NOMINAL PRESSURE

E1	DIN PN10
E2	DIN PN16
E3	DIN PN25
E4	DIN PN40
E5	DIN PN40
E6	ANSI 150#
E7	ANSI 300#
E8	JSI 10K
E9	JSI 20K
E10	JSI 30K
E11	insertion PN16
E12	tri-clamp PN16
E13	wafer PN16
E14	thread PN16

COMMUNICATION

F1	RS485
F2	HART

STRUCTURE

G1	integrated
G2	separated

PROTECTION GRADE

H1	IP65 transmitter+IP65 sensor
H2	IP65 transmitter+IP68 sensor

POWER SUPPLY

J1	AC220V/50Hz
J2	DC20V~36V

ELECTRODE MATERIAL SELECTION

SUS316L	applicable to industrial/municipal water, wastewater and low-corrosive media
Hastelloy B	strong resistance to hydrochloric acid below the boiling point; it also resists oxidizing acids, alkalis, and non-oxidizing salts, for example, sulfuric acid, phosphoric acid, hydrofluoric acid, and organic acids
Hastelloy C	exceptional resistance to strong solutions of oxidizing salts and acids, for example, Fe^{3+}, Cu^{2+}, nitric acid, mixed acids
Titanium	titanium can withstand corrosive mediums such as seawater, chloride salt solutions, hypochlorite salts, oxidable acids (including fuming nitric acid), organic acids, and alkali. not resistant to high-purity reducing acids, such as sulfuric acid, hydrochloric acid
Platinum-iridium	resistant to nearly all chemical media; not applicable to aqua regia, ammonium salts, and certain halogen-containing solutions
Tantalum	highly resistant to corrosive mediums; applicable to most chemical media except hydrofluoric acid, oleum and alkalis

LINER MATERIAL SELECTION

Material	Main performance	Scope of application
PTFE	1. one of the most chemically stable plastics,resistant to boiling HCl, H_2SO_4, aqua regia, and concentrated alkalis 2. poor wear resistance 3. low negative pressure resistance, liner deformation/rupture risk	1. concentrated acids, alkalis and other highly corrosive media 2. for non-negative pressure service
PFA	1. good hydrophobicity, non-stick and high temperature resistance 2. excellent corrosion resistance; capable of withstanding strong acids, strong alkalis, organic solvents and various salt solutions 3. good negative pressure resistance; internal metal mesh optional for higher negative pressure requirements 4. poor wear resistance	1. suitable for non-severe abrasion media
FEP	1. hydrophobic and non-stick performance 2. corrosion resistance ranks only below PFA 3. good negative pressure resistance. for high negative pressure working conditions, internal metal mesh reinforcement can be adopted to improve negative pressure endurance 4. poor wear resistance	1. suitable for non-severe abrasion media
Neoprene	1. resistant to oil, solvents and oxidation; compatible with common acidic, alkaline and salt media. 2. excellent elasticity and wear resistance, with inferior cold resistance	1. suitable for media without strong acid, strong alkali and strong oxidizing property 2. suitable for measuring sewage and slurry
Hard Rubber	1. excellent oil resistance, high wear resistance and good heat resistance 2. poor low-temperature resistance and poor ozone resistance	1. suitable for abrasive media such as slag flushing water
Polyurethane	1. excellent wear resistance and elasticity 2. poor acid and alkali resistance	1. neutral high-abrasion ore pulp, coal slurry and slurry

FLOW RANGE

Velocity (m/s) / Flow(m^3/h) / Size(mm)	0.5	1	4	10	12	15
15	0.318	0.636	2.543	6.359	7.63	9.538
20	0.565	1.13	4.522	11.304	13.56	16.956
25	0.883	1.766	7.065	17.663	21.2	26.494
32	1.447	2.894	11.575	28.938	34.73	43.407
40	2.261	4.522	18.086	45.216	54.26	67.824
50	3.533	7.065	28.26	70.65	84.78	105.98
65	5.97	11.94	47.76	119.4	143.3	179.1
80	9.04	18.09	72.35	180.86	217	271.3
100	14.13	28.26	113.04	282.6	339.1	423.9
125	22.08	44.16	176.63	441.56	529.9	662.34
150	31.79	63.59	254.34	635.85	763	953.78
200	56.52	113.04	452.16	1130.4	1356	1696
250	88.31	176.53	706.5	1766.25	2120	2649
300	127.2	254.34	1017	2543.4	3052	3815
350	173.1	346.19	1385	3461.85	4154	5193
400	226.1	452	1809	4522	5426	6782
450	286.1	572	2289	5723	6867	8584
500	353.3	707	2826	7065	8478	10598
600	508.7	1017	4069	10174	12208	15260