



SLURRY ELECTROMAGNETIC FLOWMETERS
PART NO. 0905-□□□□□□□□-U

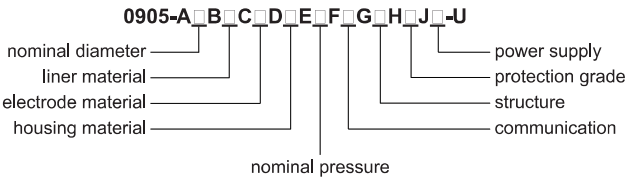
CUSTOMIZABLE

- 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-A6B1C1D1E1F1G1H1J1-U

Part No. explanation:



Part No. example:

0905-A6B1C1D1E1F1G1H1J1-U	A6-nominal diameter: 2"
	B1-liner material: PTFE
	C1-electrode material: SUS316L
	D1-housing material: carbon steel
	E1-nominal pressure: ANSI 150#
	F1-communication: RS485
	G1-structure: integrated
	H1-protection grade: IP65 transmitter+IP65 sensor
	J1-power supply: AC110V/60Hz

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	1/2"~24"	
Liner material	PTFE, PFA, FEP, neoprene, hard rubber, polyurethane (optional)	
Electrode material	SUS316L, hastelloy B, hastelloy C, titanium, tantalum, platinum-iridium (optional)	
Medium temperature	-4°F~140°F	14°F~320°F
Housing	carbon steel, SUS304, SUS316 (optional)	
Measuring tube	SUS304	
Nominal pressure	flange	ANSI 150#/300# DIN PN10/PN16/PN25/PN40 JSI 10K/20K/30K (optional)
	insertion, tri-clamp, wafer, thread	232psig
Velocity	1.64ft/s~49.2ft/s	
Signal output (volumetric flow)	current: 4mA~20mA (active output), frequency: 1Hz~5000Hz, pulse (passive output)	
Communication	RS485, HART (optional)	
Display	5.04"×5.04" 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	AC110V/60Hz, DC20~36V (optional)	
Power	<20W	
Operation condition	temperature: -4°F~140°F, humidity: 5%RH~95%RH	

NOMINAL DIAMETER

A1	1/2"
A2	3/4"
A3	1"
A4	1 1/4"
A5	1 1/2"
A6	2"
A7	2 1/2"
A8	3"
A9	4"
A10	5"
A11	6"
A12	8"
A13	10"
A14	12"
A15	14"
A16	16"
A17	18"
A18	20"
A19	22"
A20	24"

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	ANSI 150#
E2	ANSI 300#
E3	DIN PN10
E4	DIN PN16
E5	DIN PN25
E6	DIN PN40
E7	DIN PN40
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	AC110V/60Hz
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, oxidizable 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	- one of the most chemically stable plastics, resistant to boiling HCl, H₂SO₄, aqua regia, and concentrated alkalis - poor wear resistance - low negative pressure resistance, liner deformation/rupture risk	- concentrated acids, alkalis and other highly corrosive media - for non-negative pressure service
PFA	- good hydrophobicity, non-stick and high temperature resistance - excellent corrosion resistance; capable of withstanding strong acids, strong alkalis, organic solvents and various salt solutions - good negative pressure resistance; internal metal mesh optional for higher negative pressure requirements - poor wear resistance	suitable for non-severe abrasion media
FEP	- hydrophobic and non-stick performance - corrosion resistance ranks only below PFA - good negative pressure resistance. for high negative pressure working conditions, internal metal mesh reinforcement can be adopted to improve negative pressure endurance - poor wear resistance	suitable for non-severe abrasion media
Neoprene	- resistant to oil, solvents and oxidation; compatible with common acidic, alkaline and salt media. - excellent elasticity and wear resistance, with inferior cold resistance	- suitable for media without strong acid, strong alkali and strong oxidizing property - suitable for measuring sewage and slurry
Hard Rubber	- excellent oil resistance, high wear resistance and good heat resistance - poor low-temperature resistance and poor ozone resistance	suitable for abrasive media such as slag flushing water
Polyurethane	- excellent wear resistance and elasticity - poor acid and alkali resistance	neutral high-abrasion ore pulp, coal slurry and slurry

FLOW RANGE

Velocity (ft/s) Flow(GPM) Size(in/mm)	1.6	3.3	13.1	32.8	39.4	49.2
1/2" (15 mm)	1.4	2.8	11.2	28.0	33.6	42.1
3/4" (20 mm)	2.5	5.0	19.9	49.8	59.7	74.7
1" (25 mm)	3.9	7.8	31.1	77.8	93.3	117
1 1/4" (32 mm)	6.4	12.7	51.0	127	153	191
1 1/2" (40 mm)	9.9	19.9	80	199	239	301
2" (50 mm)	15.6	31.1	126	311	373	467
2 1/2" (65 mm)	26.3	52.6	209	522	631	789
3" (80 mm)	39.8	80	319	796	955	1195
4" (100 mm)	62.3	125	500	1250	1492	1867
5" (125 mm)	97.2	196	777	1945	2332	2917
6" (150 mm)	140	280	1121	2801	3360	4198
8" (200 mm)	249	498	1993	4979	5972	7467
10" (250 mm)	389	777	3110	7772	9334	11685
12" (300 mm)	560	1119	4501	11197	13438	16788
14" (350 mm)	762	1526	6096	15249	18276	22866
16" (400 mm)	996	1990	7961	19901	23900	30038
18" (450 mm)	1259	2519	10073	25180	30238	37789
20" (500 mm)	1556	3113	12500	31127	37368	46661
24" (600 mm)	2240	4478	17909	44776	53954	67343