

INSERTION ELECTROMAGNETIC FLOWMETERS
PART NO. 0902-□□□□□□□□-U

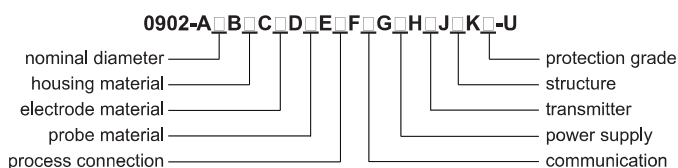
CUSTOMIZABLE

- Suitable for fluid measurement in existing pipelines, and can be installed and removed under low pressure or pressurized conditions
- Adopts dual-frequency excitation; immune to power frequency and on-site stray interference, ensuring stable and reliable performance
- Simple structure, no moving parts, negligible pressure loss
- Measurement accuracy is immune to changes in medium temperature, pressure, density, viscosity and conductivity
- Measures and displays instantaneous flow rate, velocity and totalized flow
- Flow accumulation function: forward total, reverse total, difference total
- Upper and lower flow limit alarm function
- Empty pipe alarm function



0902-A1B1C1D1E1F1G1H2J1K1-U

Part No. explanation:



Part No. example:

0902-A1B1C1D1E1F1G1H2J1K1-U	A1-nominal diameter: 4"
	B1-housing material: SUS304
	C1-electrode material: SUS316L
	D1-probe material: ABS
	E1-process connection: 2"thread
	F1-communication: RS485
	G1-power supply: AC110V/60Hz
	H2-transmitter: round
	J1-structure: integrated
	K1-protection grade: IP65 transmitter+IP65 sensor

SPECIFICATION

Structure	integrated	separated (standard cable length 32.8ft, customizable up to 328ft)
Applicable medium	various electrically conductive fluids (conductivity of conventional liquids>5μS/cm, deionized water>20μS/cm)	
Accuracy	±1.5%	
Nominal diameter	4"~118"	
Nominal pressure	flange	ANSI 150# DIN PN16 JSI 10K (optional)
	thread	232psig
Electrode material	SUS316L, hastelloy B, hastelloy C (optional)	
Probe material	ABS, polyurethane (optional)	
Medium temperature	-4°F~140°F	-4°F~248°F
Housing material	SUS304, SUS316 (optional)	
Process connection	2"thread, 2"flange (optional)	
Velocity	1.64ft/s~49.2ft/s	
Signal output (volumetric flow)	current: 4mA~20mA (active output), 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 IP68 transmitter+IP68 sensor (IP68 transmitter only uses 3.6V lithium battery) (optional)
Power supply	AC110V/60Hz, DC20V~36V, 3.6V battery (optional)	
Power	<20W	
Operation condition	temperature: -13°F~140°F, humidity: 5%RH~95%RH	

NOMINAL DIAMETER

A1	4"	A14	36"
A2	5"	A15	40"
A3	6"	A16	44"
A4	8"	A17	48"
A5	10"	A18	56"
A6	12"	A19	64"
A7	14"	A20	72"
A8	16"	A21	80"
A9	18"	A22	88"
A10	20"	A23	96"
A11	24"	A24	102"
A12	28"	A25	110"
A13	32"	A26	118"

HOUSING MATERIAL

B1	SUS304
B2	SUS316

ELECTRODE MATERIAL

C1	SUS316L
C2	hastelloy B
C3	hastelloy C

PROBE MATERIAL

D1	ABS
D2	polyurethane

PROCESS CONNECTION

E1	2"thread
E2	2"flange

COMMUNICATION

F1	RS485
F2	HART

POWER SUPPLY

G1	AC110V/60Hz
G2	DC20V~36V
G3	3.6V battery

TRANSMITTER

H1	square
H2	round

STRUCTURE

J1	integrated
J2	separated

PROTECTION GRADE

K1	IP65 transmitter+IP65 sensor
K2	IP65 transmitter+IP68 sensor
K3	IP68 transmitter+IP68 sensor

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

FLOW RANGE

Velocity (ft/s) Flow(GPM) Size(in/mm)	1.6	3.3	13.1	32.8	39.4	49.2
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
28" (700 mm)	3048	6096	24492	60952	73194	91222
32" (800 mm)	3982	7963	31905	79632	95572	119484
36" (900 mm)	5041	10080	40310	100799	121171	151369
40" (1000 mm)	6228	12500	49977	124995	149244	186603
48" (1200 mm)	8940	17909	71674	179092	214910	268638
56" (1400 mm)	12136	24492	97966	244915	293898	367372
64" (1600 mm)	15921	31905	127620	319048	382858	478572
72" (1800 mm)	20158	40310	161241	403097	483716	603896
80" (2000 mm)	24881	49977	199909	499773	599728	749660
88" (2200 mm)	30216	60432	241728	604399	725279	906599
96" (2400 mm)	36133	72266	289064	722660	867192	1083990
102" (2600 mm)	41918	83836	335344	838360	1006032	1257540
110" (2800 mm)	48742	97484	389936	974840	1169808	1462260
118" (3000 mm)	56160	112320	449280	1123200	1347840	1684800