INSERTION ELECTROMAGNETIC FLOWMETERS
CODE 0902-□□□□□□□□□□

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

Code explanation:

0902-A□B□C□D□E□F□G□H□J□K□

- A: nominal diameter
- B: housing material
- C: electrode material
- D: probe material
- E: process connection
- F: communication
- G: power supply
- H: transmitter
- J: structure
- K: protection grade

Code example:

0902-A1B1C1D1E1F1G1H2J1K1	**A1-**nominal diameter: DN100
	B1-housing material: SUS304
	C1-electrode material: SUS316L
	D1-probe material: ABS
	E1-process connection: 2"thread
	F1-communication: RS485
	G1-power supply: AC220V/50Hz
	H2-transmitter: round
	J1-structure: integrated
	K1-protection grade: IP65 transmitter+IP65 sensor

SPECIFICATION

Structure	integrated	separated (standard cable length 10m, customizable up to 100m)
Applicable medium	various electrically conductive fluids (conductivity of conventional liquids>5μS/cm, deionized water>20μS/cm)	
Accuracy	±1.5%	
Nominal diameter	DN100~DN3000	
Nominal pressure	flange	DIN PN16 ANSI 150# JSI 10K (optional)
	thread	1.6MPa
Electrode material	SUS316L, hastelloy B, hastelloy C (optional)	
Probe material	ABS, polyurethane (optional)	
Medium temperature	-20°C~60°C	-20°C~120°C
Housing material	SUS304, SUS316 (optional)	
Process connection	2"thread, 2"flange (optional)	
Velocity	0.5m/s~15m/s	
Signal output (volumetric flow)	current: 4~20mA (4-wire), 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 IP68 transmitter+IP68 sensor (IP68 transmitter only uses 3.6V lithium battery) (optional)
Power supply	AC220V/50Hz, DC20V~36V, 3.6V battery (optional)	
Power	<20W	
Operation condition	temperature: -25°C~60°C, humidity: 5%RH~95%RH	

NOMINAL DIAMETER

A1	DN100	**A14**	DN900
A2	DN125	**A15**	DN1000
A3	DN150	**A16**	DN1100
A4	DN200	**A17**	DN1200
A5	DN250	**A18**	DN1400
A6	DN300	**A19**	DN1600
A7	DN350	**A20**	DN1800
A8	DN400	**A21**	DN2000
A9	DN450	**A22**	DN2200
A10	DN500	**A23**	DN2400
A11	DN600	**A24**	DN2600
A12	DN700	**A25**	DN2800
A13	DN800	**A26**	DN3000

ELECTRODE MATERIAL

C1	SUS316L
C2	hastelloy B
C3	hastelloy C

POWER SUPPLY

G1	AC220V/50Hz
G2	DC20V~36V
G3	3.6V battery

PROBE MATERIAL

D1	ABS
D2	polyurethane

TRANSMITTER

H1	square
H2	round

PROCESS CONNECTION

E1	2"thread
E2	2"flange

STRUCTURE

J1	integrated
J2	separated

HOUSING MATERIAL

B1	SUS304
B2	SUS316

COMMUNICATION

F1	RS485
F2	HART

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 (m/s) / Flow(m^3/h) / Size(mm)	0.5	1	4	10	12	15
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
700	692.4	1385	5539	13847	16617	20771
800	904.3	1809	7235	18086	21704	27130
900	1145	2289	9156	22891	27469	34336
1000	1413	2826	11304	28260	33912	42390
1200	2035	4069	16278	40694	48833	61042
1400	2769	5539	22156	55390	66468	83084
1600	3617	7235	28938	72346	86815	108518
1800	4578	9156	36625	91562	109875	137344
2000	5652	11304	45216	113040	135648	169560
2200	6839	13678	54711	136778	164134	205168
2400	8139	16278	65111	162778	195333	244166
2600	9552	19104	76415	191038	229245	286556
2800	11078	22156	88623	221558	265870	332338
3000	12717	25434	101736	254340	305208	381510