

GENERAL

ALIAMAG The AMF301 Series is a threaded type electromagnetic flowmeter ideal for conductive liquids. It comes in sizes from 4-40 mm. The AMF301 is widely used for tap-water, waste water, food & beverage, pulp & paper and many other industrial fluid. AMF301 Series electromagnetic flowmeter could be used in compact or remote model with AMC Series converter of electromagnetic flowmeter.

FEATURES

- Light and compact version
- Flow velocity range: 0-12 m/s, precisely in low flow applications
- Interface thread piping
- FEP Liner suitable for vacuum tube
- High accuracy of +/-0.4% value of reading (or +/-0.2% value of reading)
- With Forward / Reverse flowrate measurement function

STANDARD SPECIFICATION

- | | | | |
|-------------------|---------------------------------|------------------------|---|
| ● Size | : FEP: 4, 10, 15, 25 mm | ● Cable Entry | : Standard: M20 Option: 1/2" NPTF |
| | : PU: 10, 15, 20, 25, 32, 40 mm | ● Ambient Temperature | : -25 ~ 60 °C |
| ● Measuring Range | : Velocity 0-0.25 m/s Min. | ● Process Connection | : Screw thread (BSPP) |
| | 0-12 m/s Max. | ● Grounding Resistance | : Must be less than 10 Ω |
| ● Material | | ● Accuracy | : +/-0.4% of reading (Velocity ≥ 0.5 m/s) |
| Tube & Connection | : Stainless Steel 304 | | : +/-0.2% of reading |
| Coil Housing | : Carbon Steel (Standard) | | (Suitable for AMC3200 / 3200E converter) |
| Liner | : PU / FEP | | : +/-0.0025 m/s (Velocity < 0.5 m/s) |
| Electrode | : Stainless Steel 316L | ● Temperature | |
| | : Titanium | Compact | : -10 ~ 80 °C |
| | : Hastelloy B | Remote | : -20 ~ 120 °C (Liner: FEP) |
| | : Hastelloy C | | : -10 ~ 80 °C (Liner: PU) |
| | : Tantalum | ● Max. Pressure | : 16 kgf/cm ² |
| | : Platinum (25, 32, 40 mm Only) | ● Explosion Proof | : Ex d ia [ia] q IIC T6 |
| ● Flow Range | | | (with AMC3200 only) |
| 4 mm | : 0-11.3 L/hr ~ 0-543 L/hr | ● Protection Class | : IP67 |
| 10 mm | : 0-71 L/hr ~ 0-3,393 L/hr | ● Conductivity | : More than 5 μS/cm |
| 15 mm | : 0-159 L/hr ~ 0-7,634 L/hr | | |
| 20 mm | : 0-283 L/hr ~ 0-13,571 L/hr | | |
| 25 mm | : 0-442 L/hr ~ 0-21,205 L/hr | | |
| 32 mm | : 0-724 L/hr ~ 0-34,743 L/hr | | |
| 40 mm | : 0-1,131 L/hr ~ 0-54,286 L/hr | | |

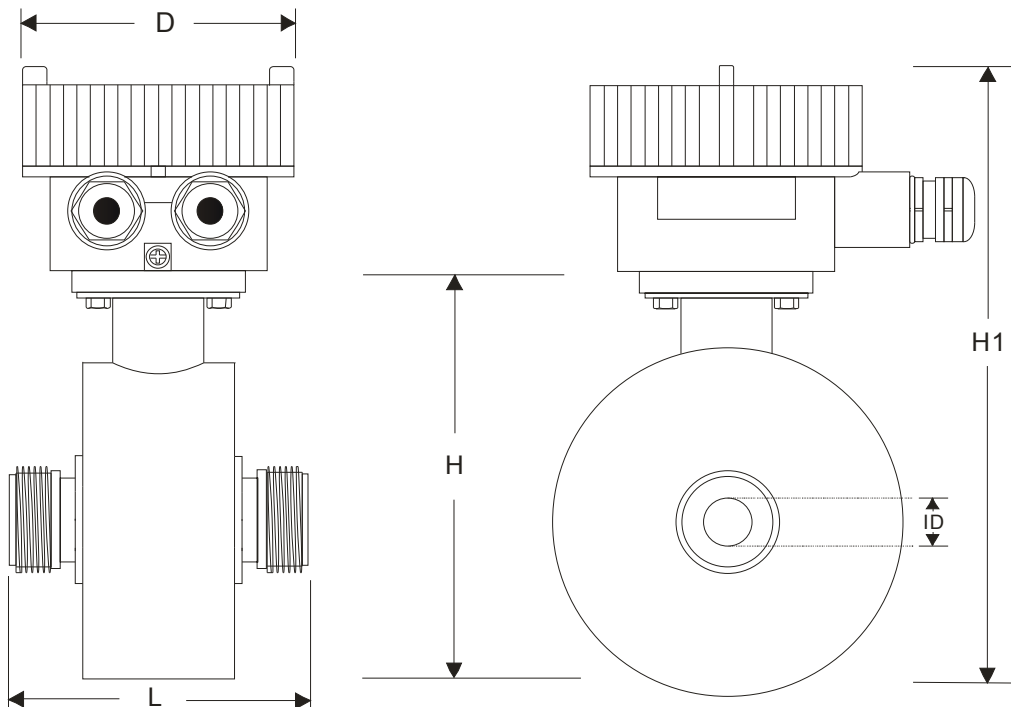


FLOW RANGE

Unit: L/hr

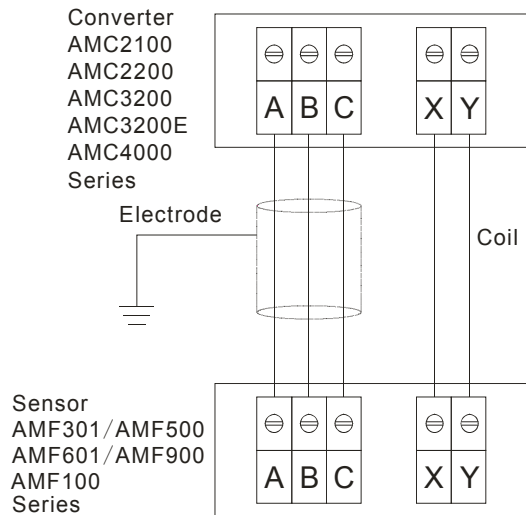
Normal Size	Flow Range & Velocity Table						
mm	Min. 0-0.25 m/s	1.0 m/s	2.0 m/s	3.0 m/s	5.0 m/s	10.0 m/s	Max. 0-12 m/s
4	0 to 11.3	45	90	136	226	452	0 to 543
10	0 to 71	283	565	848	1,414	2,827	0 to 3,393
15	0 to 159	636	1,272	1,908	3,181	6,362	0 to 7,634
20	0 to 283	1,131	2,262	3,393	5,655	11,309	0 to 13,571
25	0 to 442	1,767	3,534	5,301	8,836	17,671	0 to 21,205
32	0 to 724	2,895	5,790	8,686	14,476	28,952	0 to 34,743
40	0 to 1,131	4,524	9,048	13,571	22,619	45,238	0 to 54,286

DIMENSIONS



Size	Connection	Dimensions (mm)				Weight
ID (mm)		L	D	H	H1	kg
		FEP / PU	FEP / PU	FEP / PU	FEP / PU	FEP / PU
4	1/2" BSPP	90 / X	100	140 / X	219 / X	2.0 / X
10	3/4" BSPP	100 / 100	100	145 / 137	224 / 216	2.2 / 2.2
15	3/4" BSPP	110 / 100	100	145 / 137	224 / 216	2.5 / 2.4
20	1" BSPP	X / 100	100	X / 137	X / 216	X / 2.5
25	1-1/4" BSPP	110 / 100	100	165 / 137	244 / 216	2.5 / 2.5
32	1-1/2" BSPP	X / 100	100	X / 142	X / 221	X / 2.8
40	2" BSPP	X / 100	100	X / 150	X / 229	X / 3.1

WIRING DIAGRAM



MODEL SELECTION GUIDE

AMF301 Series						
Example: AMF301-O15-S-050-NN						
AMF301-	X	XX	-X	XXX	-XX	Description
Liner	O				PU / Polyurethane (10, 15, 20, 25, 32, 40 mm)	
	F				FEP (4, 10, 15, 25 mm)	
Size		04-40				4, 10, 15, 20, 25, 32, 40 mm
Electrode Material			-S			Stainless Steel 316L
			-T			Titanium
			-B			Hastelloy B
			-C			Hastelloy C
			-A			Tantalum
			-P			Platinum (25, 32, 40 mm only)
			-Z			Others
Installation & Cable Length				NNN		Compact Version
				010-300		Remote Version, Cable 10-300 m
Option					-NN	None
					-EX	Explosion Proof, Ex d ia [ia] q IIC T6 (with AMC3200 only)
					-PT	Cable Entry 1/2" NPTF

BUILD OPTIONS-(COMPACT OR REMOTE)

