ALIAMAG
Electromagnetic Flowmeter
Model AMF500 Series

GENERAL

ALIAMAG The AMF500 Series is a wafer type electromagnetic flowmeter ideal for conductive liquids. It comes in sizes from 25-200 mm. AMF500 is widely used for tap-water, waste water, food & beverage, pulp & paper and many other industrial fluid.

AMF500 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, precise in low flow applications
- It comes any fange such as ANSI, DIN, JIS etc.
- Excellent for high pressure application
- Protection class: IP68 available; sensor submersible
- FEP Liner is suitable for vacuum tube
- High accuracy of +/-0.4% value of reading (or +/-0.2% value of reading)
- With Forward / Reverse flowrate measurement function
- It has electrode cleaning function

STANDARD SPECIFICATION

- Size : 25, 32, 40, 50, 65, 80, 100, 125, 150, 200 mm
- Measuring Range : Velocity 0-0.25 m/s Min.
  0-12 m/s Max.
- Material
  - Measuring Tube : Stainless Steel 304
  - Coil Housing : Carbon Steel (Standard)
  - : Stainless Steel 304 (Option)
  - : Stainless Steel 316 (Option)
- Liner : PTFE, FEP
- Protection Class : Junction box IP67, Body IP68
  : IP68 (Submersible)
- Conductivity : More than 5 μS/cm
- Electrode & Grounding : Stainless Steel 316L
  : Hastelloy B
  : Hastelloy C
  : Titanium
  : Tantalum
  : Tungsten Carbide
  : Platinum
- Cable Entry : Standard: M20 Option: 1/2" NPTF
- Ambient Temperature : -25~60 °C
- Process Connection : Wafer
- Flange Type : JIS 10K / JIS 20K / JIS 40K
  ANSI 150# / ANSI 300# / ANSI 600#
  DIN PN10 / PN16 / PN25 / PN40
- Grounding Resistance : Must be less than 10 Ω
- Accuracy : +/-0.5% of reading (Velocity≥0.5 m/s)
  : +/-0.2% of reading
  (Suitable for AMC3200 / 3200E converter)
  : +/-0.0025 m/s (Velocity<0.5 m/s)
- Temperature : -40~180 °C
- Max. Pressure : 16 kgf/cm^2 (Standard)
  : 40 kgf/cm^2 (Option)
- Explosion Proof : Ex d ia [ia] q IIC T6
  (with AMC3200, AMC3200DF only)

CE

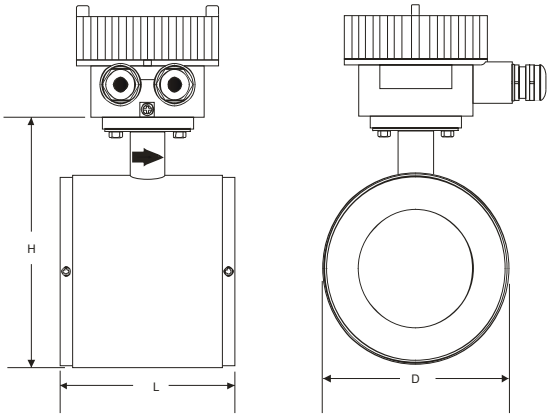
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FLOW RANGE

Unit: m^3/hr

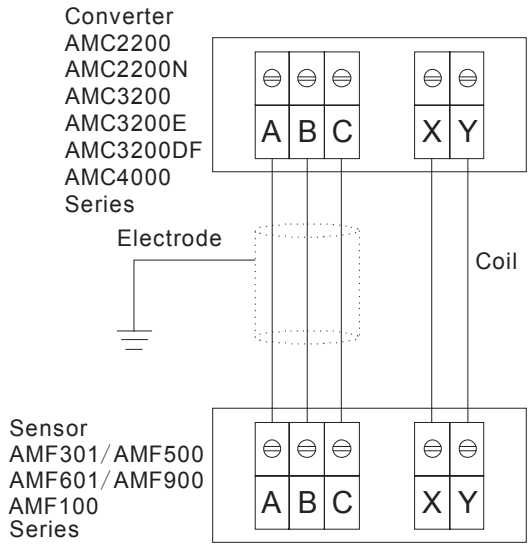
Normal Size		Flow Range & Velocity Table						
mm	Inch	Min. 0-0.25 m/s	1.0 m/s	2.0 m/s	3.0 m/s	5.0 m/s	10.0 m/s	Max. 0-12 m/s
25	1"	0 to 0.44	1.77	3.53	5.30	8.84	17.7	0 to 21.2
32	1-1/4"	0 to 0.72	2.90	5.79	8.69	14.5	29.0	0 to 34.7
40	1-1/2"	0 to 1.13	4.52	9.05	13.6	22.6	45.2	0 to 54.3
50	2"	0 to 1.77	7.07	14.1	21.2	35.3	70.7	0 to 84.8
65	2-1/2"	0 to 2.99	11.9	23.9	35.8	59.7	119	0 to 143
80	3"	0 to 4.52	18.1	36.2	54.3	90.5	181	0 to 217
100	4"	0 to 7.07	28.3	56.5	84.8	141	283	0 to 339
125	5"	0 to 11.0	44.2	88.4	133	221	442	0 to 530
150	6"	0 to 15.9	63.6	127	191	318	636	0 to 763
200	8"	0 to 28.3	113	226	339	565	1131	0 to 1357

DIMENSIONS



Size		Dimensions (mm)			Weight
mm	Inch	L	D	H	kg
25	1"	90	71	138	3.0
32	1-1/4"	100	80	147	3.6
40	1-1/2"		86	153	3.9
50	2"	115	100	167	5.0
65	2-1/2"		120	187	6.3
80	3"	130	131	198	6.5
100	4"	155	151	218	9.0
125	5"		181	248	11.0
150	6"	185	206	273	13.5
200	8"	215	261	328	21.0

WIRING DIAGRAM



MODEL SELECTION GUIDE

AMF500 Series									
Example: AMF500-F080-CE80-050-NN									
AMF500-	X	XXX	-X	X	X	X-	XXX	-XX	Description
Liner	P								PTFE
	F								FEP
Size		025-200							25-200 mm
Electrode Material			-S						Stainless Steel 316L
			-T						Titanium
			-B						Hastelloy B
			-C						Hastelloy C
			-A						Tantalum
			-P						Platinum
			-U						Tungsten Carbide
			-Z						Others
Grounding				N					None
				E					Grounding Electrode (3 Electrodes)
				R					Grounding Ring (S.S. 316)
				A					Grounding & Protection Ring (S.S. 316)
Protection Class					8				Junction box IP67, Body IP68
					9				IP68 (Submersible, Remote with Converter Only)
Housing Material						0-			Carbon Steel (Standard)
						8-			S.S. 304 Housing
						9-			S.S. 316 Housing
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, AMC3200DF Only)
								-HP	Pressure higher than standard
								-T1	Max. Temp.: 120-140 °C
								-PT	Cable Entry 1/2" NPTF
								-CD	Electrode Cleaning Device (Only for 2 Electrodes (316L), Size≥4")
								-LR	Low-resistance coil (with AMC3200DF only)

↗BUILD OPTIONS-(COMPACT OR REMOTE)

