

Electro Magnetic Flow Meter (With RS485 O/P)

Make: EnthuTech
Brand: akvodrops
Model: AD-EMFM



Product Overview:

Electromagnetic flowmeters are designed to measure the volumetric flow rates of liquid (with and without solid contents) pulps, pastes and slurries in practically all industrial sectors. The only requirement is that the process product should have a defined minimum electrical conductivity.

The instrument is based on Faradays Law of electromagnetic induction. A magnetic field is generated by the instrument in the flow tube. The fluid flowing through this magnetic field generates a voltage that is proportional to the flow velocity. Corresponding electrical output is provided with respect to measuring flow range.

Salient Features:

- Electro Magnetic Flow type
- RS485 Modbus Output Provision
- Measurement is independent of density, viscosity, temperature, and pressure.
- High accuracy is guaranteed according to the linear measurement principle.
- Simple Installation and start-up
- Large backlit graphic display with intuitive operation.
- A variety of operating languages integrated as standard.
- Full bore type
- Empty pipe, low & high flow, and excitation alarm indication
- High degree of reliability and measuring stability.
- Maintenance Free
- Extremely quick Signal Ratio
- No obstruction to the flow
- Meter IP Rating: IP68

Specifications:

- Accuracy: $\pm 0.2\%$
- Repeatability: $\pm 0.2\%$ of Span
- Flow Rate: 0.3 to 10 m/s
- Medium Pressure: 10/16/25/40 (Kg/cm²)
- Electrode Material: SS316 Std/ Hastalloy C/ Titanium/ Tantalum/ Platinum
- Lining Material: PTFE/ Rubber/ Neoprene/ PFA/ HDPE/ Polyurethane/ CPVC
- Flow Tube Material: SS304 Std/ SS316
- Coil House Material: Carbon steel/ Stainless steel
- Power supply: 230VAC/ 24VDC/ Battery
- Communication Interface: RS485 Modbus
- Display: LCD Display
- Enclosure Material: Die Cast Aluminium
- Working Temperature -20°C to 60°C
- Working Humidity: 5 to 95% Non-condensing
- Available Sizes: DN25 to DN1000

Certifications & Compliances:

- ISO 4064
- IS779:1994 (In Progress)
- ISO/IEC 17025:2017
- 100% of the products are calibrated and all calibration results can be provided on request.

Transmitter Technical Data

Display: 3 lines x 12-character alpha- numeric backlit LCD.

Displays rate of flow, total flow, alarms analog outputs and relay annunciators.

Displays text prompts in programming mode.

Outputs: Pulse Output; 4-20 Ma output fully isolated.

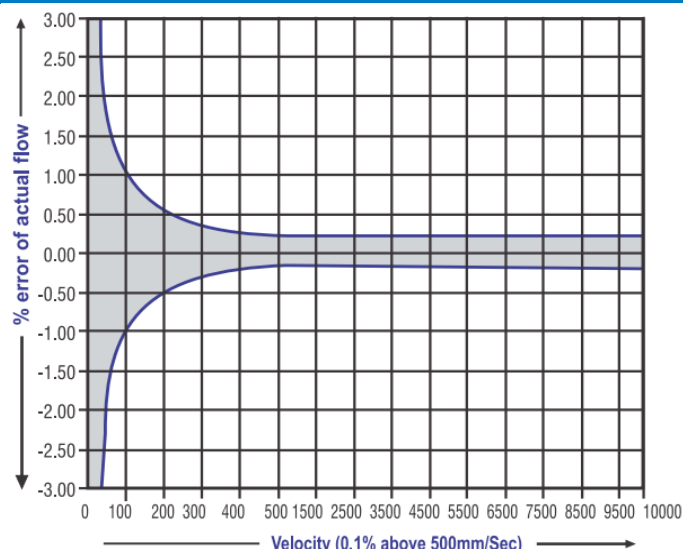
High/Low alarms relay output RS 485

Installation Method:

All electromagnetic flow meters are delivered ready for operation.

Install the flow meter in the pipeline. Make the electrical connection, that's it. Install directly into the process pipeline can be installed in horizontal, vertical or slopped pipelines.

Note: For accurate flow measurement the flow detector must always be full. Recommended installations requirements are 5 diameters of straight pipe section upstream and 3 diameters downstream.



Meter Size		Drawing Size				Standard Pressure Rating PN	Min. Flow Range Flow Velocity (0.1 m/s)	Max. Flow Range Flow Velocity (10 m/s)	Weight (kg)
(mm)	Inch	D	L	K	n-øA				
25	1	110	200	79.4	4- ø15.87	40	0.02 m³/h	20 m³/h	7
32	1-1/4	115	200	88.9	4- ø15.87	40	0.03 m³/h	30 m³/h	8
40	1-1/2	125	200	98.4	4- ø15.87	40	0.04 m³/h	40 m³/h	8
50	2	150	200	120.7	4- ø19.05	40	0.06 m³/h	60 m³/h	9
65	2-1/2	180	200	139.7	4- ø19.05	40	0.12 m³/h	120 m³/h	10
80	3	190	200	152.4	4- ø19.05	40	0.18 m³/h	180 m³/h	12
100	4	230	250	190.5	8- ø19.05	16	0.24 m³/h	240 m³/h	21
125	5	255	250	215.9	8- ø22.22	16	0.42 m³/h	420 m³/h	23
150	6	280	300	241.3	8- ø22.22	16	0.60 m³/h	600 m³/h	26
200	8	345	350	298.5	8- ø22.22	10	1.08 m³/h	1080 m³/h	42
250	10	405	400	362.0	12- ø25.40	10	1.80 m³/h	1800 m³/h	64
300	12	485	500	431.8	12- ø25.40	10	2.40 m³/h	2400 m³/h	94
350	14	535	500	476.3	12- ø28.57	10	3.30 m³/h	3300 m³/h	Flanges to ANSI: weights and dimensions on request
400	16	595	600	539.8	16- ø28.57	10	4.50 m³/h	4500 m³/h	
450	18	635	600	577.9	16- ø31.75	10	6.00 m³/h	6000 m³/h	
500	20	700	600	635.0	20- ø31.75	10	6.60 m³/h	6600 m³/h	
600	24	815	600	749.3	20- ø34.92	10	9.60 m³/h	9600 m³/h	
700	28	927	700	863.5	28- ø35.0	10	13.2 m³/h	13200 m³/h	
800	32	1060	800	978.0	28- ø41.0	10	18.0 m³/h	18000 m³/h	
900	36	1168	900	1086.0	32- ø41.0	10	24.0 m³/h	24000 m³/h	
1000	40	1289	1000	1200.0	36- ø41.0	10	27.0 m³/h	27000 m³/h	

Applications:

- Domestic & Industrial Water
- Raw & Ground Water
- Urban Sewage
- Industrial Waste Water
- Processed Neutral Pulp & Pulp Slurry
- Chemicals etc.

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