ELECTROMAGNETIC FLOW METER

MODEL: JI-EMFM

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E FLOWMETER is micro-controller based full bore type electromagnetic flow meters specially used for various industrial applications.

These flow meters accurately measures the flow rate of conductive liquid & slurries in closed pipes. Due to simple & rigid design, the flow

meter is an obstruction less & maintenance free instrument in place of conventional mechanical flow measuring device. The use of 'Pulsed

DC' technology offers highest ability & better measuring accuracy in the form of electrical signal 4 - 20mA DC linearly proportional to

volumetric flow. The instrument is based on Faraday's law of electro-magnetic induction. A magnetic field is generated by the instrument in

the flow tube. 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.

Silent Features:

- Suitable for conductive liquids
- Maintenance free
- Full bore type
- Local Indication through LCD
- Simple & cost effective construction
- Empty pipe indication
- Material option depending upon process data
- Universal Power Supply 90 to 260V AC Optional 24V DC
- Communication port (Optional)

Technical Specifications:

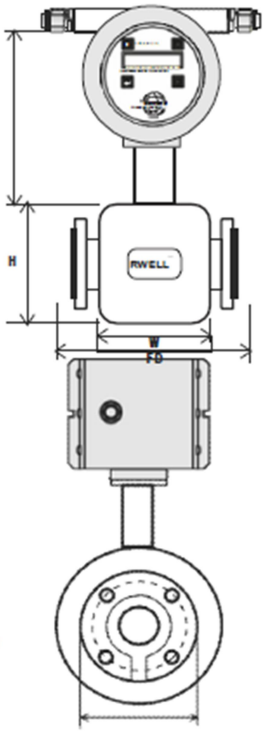
Media:	Liquids (Conductive)
Conductivity:	> 5 µs/cm
Viscosity:	200 cp max
Line Size:	15 NB to 1000 NB
Excitation:	Pulsed DC
Type of Output:	1) 4 to 20 mA DC, Isolated, 2) Pulse
Display:	Graphics type
Engineering Unit:	User Programmable (m^3 /hr by default)
Calibration Range:	As per requirement (Factory Calibrated)
Accuracy:	+/- 0.5% of F. S. (for 20 to 100% flow)
Linearity:	+/- 0.5% of F. S.
Repeatability:	+/- 0.2% of F. S.
Temperature Coef cient:	+/- 0.05% per °C
Process Temperature:	85° C max for Rubber Lining & 150°C for PTFE Lining

Process Pressure:	10 kg/cm² max (higher on request)
Material of construction:	Lining - Rubber (5mm +/-1mm thick) / PTFE (3mm +/-1mm thick)
	Flange - CS / MS / SS
	Electrode - SS 316L / Hastalloy C / Platinum
	Coil Housing - MS / SS 304
Power Supply:	Option 1: 24 V DC
	Option 2: 90 - 260 V AC, 50 Hz
Power Consumption:	< 10 VA
Isolation:	1.4 KV between Input, Output & Power Supply
Response Time:	< 1 Sec
Transmitter Enclosure:	Die cast Aluminium IP 66, flow tube IP 68
Process Connections:	ASA 150 flanged, as per table B 16.5
Mounting:	In-Line Horizontal (Vertical on request)
Operating Conditions:	Temperature 0 to 55°C / Humidity 5 to 95% non condensing

Note:- For process conditions other than above please consult factory.

OPTIONAL

Communication Port:	1) RS 485 supporting MODBUS/HART(OPTIONAL)
	2) GSM Communication
Electronics:	Remote Electronics

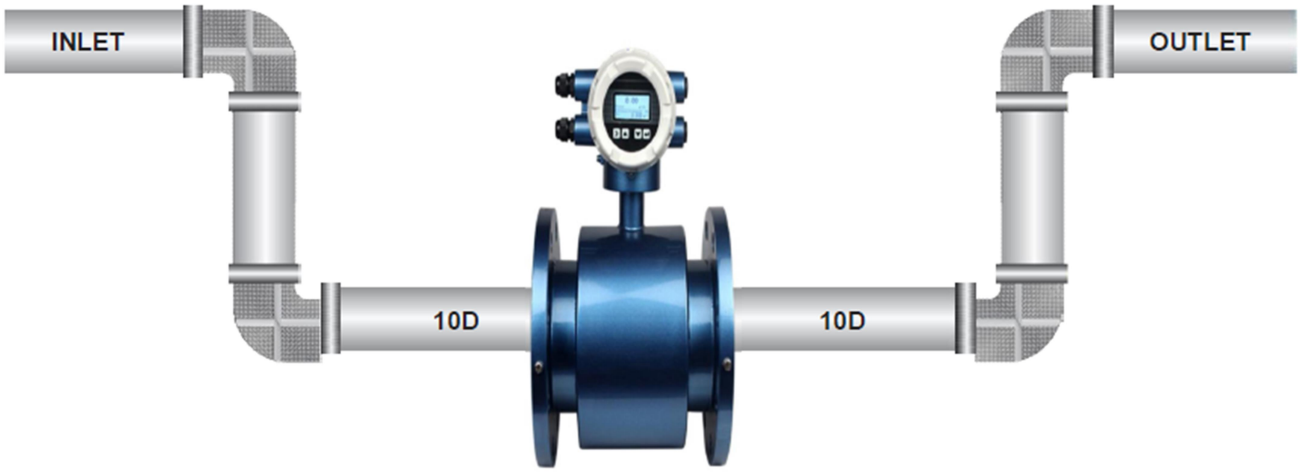


Meter Size	OD (mm)	W (mm)	H (mm)	FD (mm)	Flow Range (m³ /hr) Min	Normal	Max
15 NB	88.9	100	180	200	0.03	1.2723	6.4
20 NB	98.4	100	180	200	0.11	2.2619	11
25 NB	107.9	100	180	200	0.18	3.5341	18
32 NB	117.5	100	210	200	0.29	5.7906	29
40 NB	127.0	100	210	200	0.45	9.05	45
50 NB	152.4	100	210	200	0.71	14.14	71
65 NB	177.8	100	220	200	1.19	23.892	119
80 NB	190.5	100	240	200	1.81	36.19	181
100 NB	228.5	150	274	250	2.83	56.55	283
125 NB	254.0	175	300	250	4.42	88.35	442
150 NB	279.4	175	330	300	6.36	127.23	636
200 NB	342.9	175	390	350	11.3	226.18	1130
250 NB	406.4	244	440	450	17.66	353.41	1766
300 NB	482.6	250	520	500	25.43	508.91	2543
350 NB	533.4	250	520	550	34.62	692.68	3462
400 NB	596.9	250	520	600	45.22	904.72	4522
450 NB	635.0	623	632	698	57.23	1145.04	5723
500 NB	698.5	623	686	768	70.65	1413.63	7065
600 NB	812.8	818	772	918	101.74	2035.63	10174

FLOW NOMOGRAPH

OD : Flange Diameter
W : Coil Housing width
H : Coil Housing Height
FD : Flange to Flange distance

INSTALLATION DRAWING



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