



PRODUCT DATA SHEET

FloCat MFE Electromagnetic Flow Meter

The FloCat MFE is a complete electromagnetic flow metering system, combining both a flow sensor and transmitter into one convenient package. The MFE incorporates rugged carbon steel construction with 150# ANSI flanges creating a versatile, user-friendly flow metering system for general purpose applications involving clean, sanitary, dirty, corrosive and abrasive liquids. The system is IP65 rated for protection from dust and low pressure water jets.

The MFE is available in sizes from 1 to 24 inches for flow ranges from 0.61 to 56,402 gpm. The MFE has no parts to obstruct flow resulting in no pressure loss and the 0.75% accuracy is not affected by temperature, pressure, viscosity, density or flow profile though the highest accuracy is achieved with flow velocities greater than 1.63 ft/sec. With no moving parts, practically no maintenance is required. The chloroprene rubber sensor liner is suitable for liquid temperatures from -13 to 176°F and is compatible with most water-based fluids and many chemicals.

The MFE electromagnetic flow meter includes both 4-20mA and pulse output. The transmitter can be mounted either integrally to the flow sensor or remotely. The transmitter features a three-line LCD that displays the flow total, flow velocity, flow rate percent of range, and alarm settings. A four-button keypad is used to change settings.



FEATURES:

- Sizes from 1 to 24 inches
- Better than $\pm 0.75\%$ of reading accuracy (unaffected by temperature, pressure, viscosity, density or flow profile)
- 4-20mA & pulse output
- 290 psi pressure rating
- Rugged carbon steel construction
- IP65 ingress protection rating
- Remote or integral mount transmitter
- Idaho Department of Water Resources certified
- Industry-leading 3 year warranty

APPLICATIONS:

- Water and waste water treatment
- De-watering
- Industrial water monitoring
- Water distribution
- Cooling towers

SPECIFICATIONS:

Sizes: 1 to 24 inches
Flange: ANSI 150# CS
Sensor Housing Material: Carbon Steel
Accuracy: Better than $\pm 0.75\%$ of reading
 (at flow velocities > 1.63 ft/sec)
Sensor Lining: Chloroprene rubber
Minimum Conductivity: $5 \mu\text{S/cm}$
Flow velocity range: ~ 65 ft/s
Electrode Material: 316L SS
Ambient Temperature: -13 to 140°F
Liquid Temperature: -13 to 176°F
Communications: 4-20mA and Pulse
Power: 100-230 VAC
Ingress Protection: IP65
Cable Entry: NPT $\frac{1}{2}$
cCSAus and CE certified



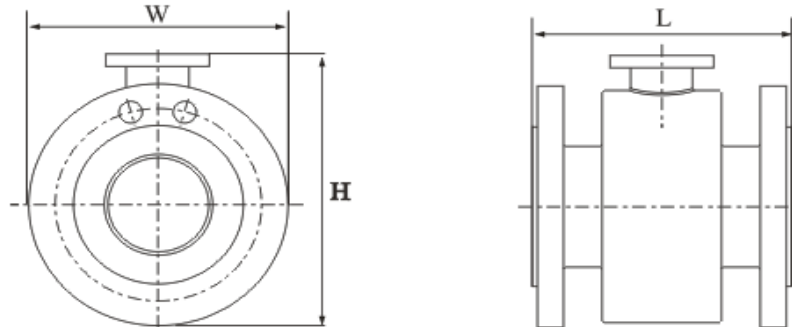
PART NUMBERING:

MFE	Diameter*		D811	Grounding Ring		A	Cable Length**		5	Mount Type		140111S
	Code	Description		Code	Description		Code	Description		Code	Description	
	25	1 inch (DN25)		0	None		0	None		EH	Integral	
	32	1.25 inch (DN32)		1	Included (2)		5	15 feet		ER	Remote	
	40	1.5 inch (DN40)					10	30 feet				
	50	2 inch (DN50)					15	50 feet				
	65	2.5 inch (DN65)					25	75 feet				
	80	3 inch (DN80)					30	100 feet				
	100	4 inch (DN100)					45	150 feet				
	125	5 inch (DN125)					60	200 feet				
	150	6 inch (DN150)					90	300 feet				
	200	8 inch (DN200)										
	250	10 inch (DN250)										
	300	12 inch (DN300)										
	350	14 inch (DN350)										
	400	16 inch (DN400)										
	450	18 inch (DN450)										
	500	20 inch (DN500)										
	600	24 inch (DN600)										

* Meter diameters from 1/10 inch to 96 inches are available. Contact us for details.

** Custom cable lengths are available. Contact us for details.

Sensor Dimensions:



Nominal Size (inch) (mm)		Dimensions (LxWxH in inches)		Shipping Weight (lbs)	Flow Range (gpm)
		Unit	Shipping		
1	25	7.9 x 5.0 x 5.8	21 x 18 x 14	21 lbs	0.61 to 97.92 gpm
1 1/4	32	7.9 x 5.0 x 6.1	21 x 18 x 14	25 lbs	0.96 to 153 gpm
1 1/2	40	7.9 x 5.0 x 6.5	21 x 18 x 14	25 lbs	1.38 to 220.3 gpm
2	50	7.9 x 6.5 x 7.4	21 x 18 x 14	32 lbs	2.45 to 391.68 gpm
2 1/2	65	7.9 x 7.3 x 8.0	21 x 18 x 14	38 lbs	3.83 to 612 gpm
3	80	7.9 x 7.9 x 8.8	21 x 18 x 14	47 lbs	5.51 to 881.28 gpm
4	100	9.8 x 8.7 x 9.8	21 x 18 x 15	62 lbs	9.79 to 1,566.7 gpm
5	125	9.8 x 9.8 x 10.9	Contact us	Contact us	15.3 to 2,448 gpm
6	150	11.8 x 11.2 x 11.9	27 x 23 x 18	101 lbs	22.03 to 3,525.1 gpm
8	200	13.8x 13.4 x 14.1	25 x 21 x 35	206 lbs	39.17 to 6,266.9 gpm
10	250	17.7 x 15.9 x 16.5	31 x 24 x 37	Contact us	61.2 to 9,792 gpm
12	300	19.7 x 18.1 x 18.4	32 x 27 x 39	Contact us	88.13 to 14,100 gpm
14	350	21.7 x 22.1 x 22.0	Contact us	Contact us	120 to 19,192 gpm
16	400	23.6 x 23.5 x 24.2	Contact us	Contact us	156.7 to 25,067 gpm
18	450	23.6 x 25.2 x 25.8	Contact us	Contact us	198.3 to 31,726 gpm
20	500	23.6 x 28.1 x 28.1	Contact us	Contact us	244.8 to 39,168 gpm
24	600	23.6 x 31.9 x 31.9	Contact us	Contact us	353.5 to 56,402 gpm

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