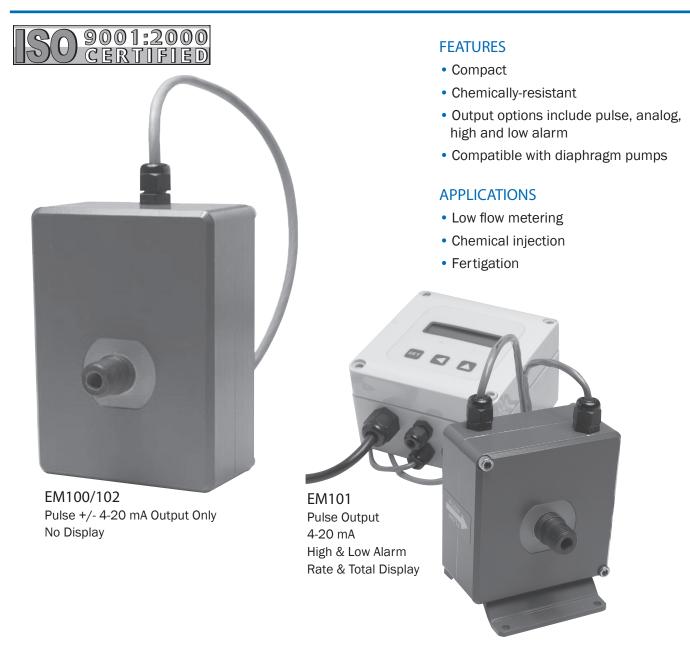


EM-SERIES Low Flow Magnetic Meter



GENERAL INFORMATION

The EM-Series are small electromagnetic low-flow flowmeters with chemically-resistant plastic wetted parts and a choice of Hastelloy or platinum electrodes suitable for use with a variety of chemicals. Capable of measuring pulsating flows from diaphragm-type metering pumps, they are designed primarily for electrically-conductive chemical injection applications. The 1/4", 3/8", and 1/2" sizes monitor maximum flows of 1, 3, and 8 gallons per minute (or 4, 11, and 30 L/min), respectively. Barb or NPT fittings available.

The EM100 and EM102 are 12-24 Vdc powered. The EM100 comes with a standard pulse output, and the EM102

with standard pulse and analog outputs. All electronics are self-contained in a single compact chemically-resistant housing, well suited for OEM applications. These meters are also appropriate for remote monitoring of chemical volume or rate using a computer or a PLC.

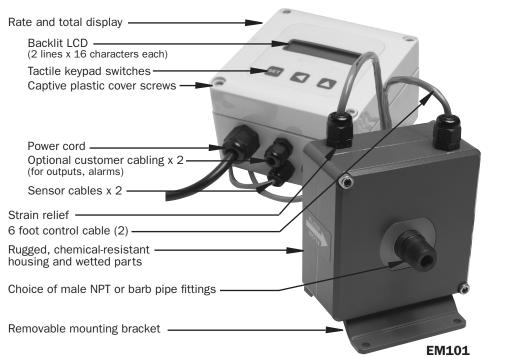
The EM101 is 115 Vac, 60 Hz powered and includes a rate and total display as well as a variety of outputs. For continu ous transmission of a flow signal, there is a 4-20 mA output, a 0-5 volt signal, and a frequency signal proportional to flow. In addition, there are relay alarm outputs for user-set low and high flow levels.

Spec Tech Industrial 203 Vest Ave. Valley Park, MO 63088 Phone: 888 SPECTECH Email: sales@spectechind.com www.spectechind.com



EM-SERIES Low Flow Magnetic Meter

FEATURES





EM100/102

Meter only, no display

No mounting bracket

Single 6 foot control cable

SPECIFICATIONS

		EM100	EM101	EM102	
Materials	Body	Kynar™ PVDF	Kynar™ PVDF	Kynar™ PVDF	
	Electrodes	Platinum or Hastelloy	Platinum or Hastelloy	Platinum or Hastelloy	
	0-Ring	Viton™ (EPDM optional)	Viton™ (EPDM optional)	Viton™ (EPDM optional)	
	Housing	ABS plastic	Fusion coated aluminum	ABS plastic	
	Display	N/A	Polycarbonate	N/A	
Rate Display Units		N/A	Gal/Minute, Liters/Second, Gal/Hour	N/A	
Total Disp	lay Units	N/A	Gallons, Liters	N/A	
Power		12-24 Vdc, 180 mA	115 Vac, 60 Hz	12-24 Vdc, 180 mA	
Accuracy		+/-1% of reading, plus .005 gpm (0.02 lpm)	+/-1% of reading, plus .005 gpm (0.02 lpm)	+/-1% of reading, plus .005 gpm (0.02 lpm)	
Max Fluid	Temperature	185° F (85° C)	185° F (85° C)	185° F (85° C)	
Maximum	Pressure	150 psi (@ 75° F)	150 psi (@ 75° F)	150 psi (@ 75° F)	
Minimum	Conductivity	20 microSiemens	20 microSiemens	20 microSiemens	
Outputs		Frequency opto isolated 1000 pulse/liter (3785 p/g)	4-20 mA, 0-5 Volts (both isolated) Frequency to 9999 pulses per gallon, isolated 10 mA, 30 Vdc High alarm, low alarm relay, isolated (100 mA, 110 Vac/Vdc)	Frequency opto isolated 1000 pulse/liter (3785 p/g) 4-20 mA opto isolated passive	

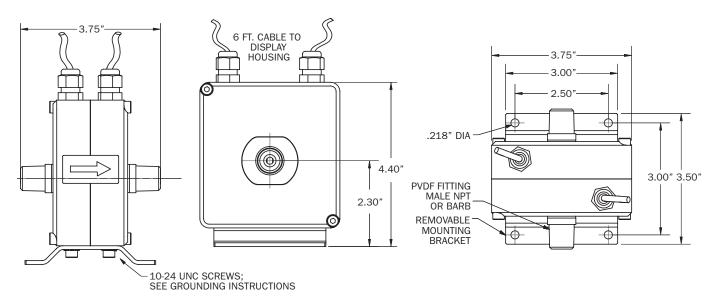
FLOW RANGE

SIZE	LOW FLOW CUTOFF			MINIMUM FLOW for spec accuracy			MAXIMUM FLOW		
	L/MIN	GAL/MIN	GAL/HR	L/MIN	GAL/MIN	GAL/HR	L/MIN	GAL/MIN	GAL/HR
-025	.04	.01	.60	.26	.07	4.2	3.8	1	60
-038	.11	.03	1.80	.76	0.2	12	11	3	180
-050	.26	.07	4.20	1.9	0.5	30	30	8	480

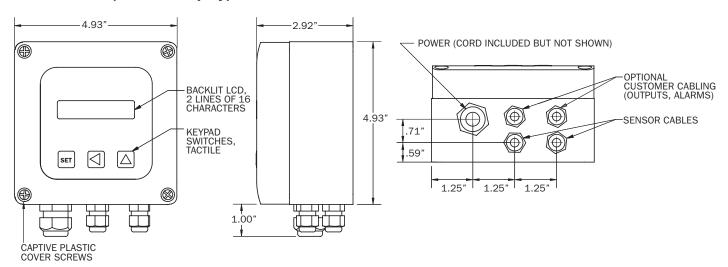


EM-SERIES Low Flow Magnetic Meter

DIMENSIONS (EM101 Meter)



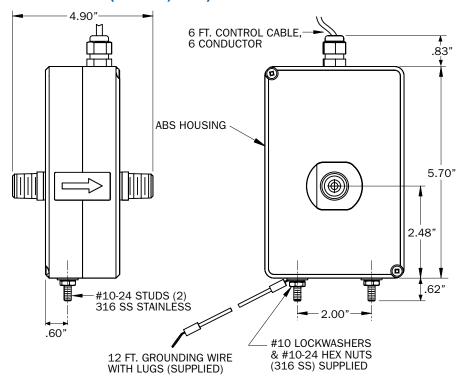
DIMENSIONS (EM101 Display)





EM-SERIES Low Flow Magnetic Meter

DIMENSIONS (EM100/102)



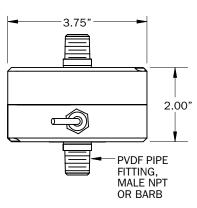


Table 1: Fittings and Length							
Size	Fittings	L (Length)					
-025	1/4" Barb, 3/8" NPT	3.75					
-038	3/8" Barb, 3/8" NPT	3.75					
-050	1/2" Barb, 1/2" NPT	4.90					

HOW TO ORDER



Pulse out, no display = EM100

Pulse/analog out, with display = EM101

Pulse/analog out, no display = **EM102**

SIZE

1/4" (.54-60 GPH) = -**025**

3/8" (1.5-180 GPH) = **-038**

1/2" (3.9-480 GPH) = **-050**

ELECTRODES

Hastelloy = HS

Platinum = PT

3/8" NPT = **-48** -038: 3/8" Barb = **-46**

FITTINGS

3/8" NPT = **-48** -050: 1/2" Barb = **-46**

-025: 1/4" Barb = -46

1/2" NPT = **-48**

OPTIONS

EPDM O-ring = -99

ACCESSORIES

Rate and total indicator = FT420 (EM100/102 ONLY)

Data logger (wall mount) = DL75W

Batch flow processor = FT520

CONTACT YOUR SUPPLIER