Battery Powered Rate Meter and Totalizer



measuring

monitoring

analyzing







- Stainless Steel, Aluminum, PVDF, or Polyamide Bodies
- Battery Powered
- Compact and Portable
- Range: 0.3...3 GPM to 30...300 GPM
- Rate and Totalizing Displays
- Optional Analog or Frequency Outputs
- Compatible with a Wide Variety of Media



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Description

The EDM turbine flowmeter measures the flow of water and other compatible, low viscosity liquids with flow rates ranging from 0.3 GPM to 300 GPM. Its replaceable 3V lithium batteries power an onboard rate meter/totalizer with the results displayed on a highly visible, 6-digit LCD readout. The versatile, modular design offers a variety of options. Available electronics include a remote display, pulse frequency output and an 4-20 mA analog output. Polyamide, Aluminum, PVDF, or Stainless Steel body construction make the EDM compatible with a wide variety of medias. The computer electronics feature the ability to individually display three useful functions: instantaneous flow rate, user resettable flow total and a non resettable flow total. Standard measuring units are field changeable between gallons and liters. The electronic display computer also has the ability to store an alternate field calibration allowing the user to easily switch between the preset 1 cP default value and one alternate calibration using the same flowmeter.

Specifications

Accuracy: Fittings	See 'Order Detail' table on page 3
Standard:	Female NPT
Optional:	Female ISO Thread, Flange, Tri-Clamp®
Maximum Pressure	remaie ioo micad, hange, molampe
Stainless Steel	
Threaded:	1500 PSIG
Flanged:	Per flange rating
Tri-Clamp®:	Limited by fitting size, clamp size, and/or
	operating temperature
Polyamide:	150 PSIG
Aluminum:	300 PSIG
PVDF:	150 PSIG
Temperature Range (Ope	rating)
Onboard Display:	0140 °F
Remote Display	
SS/Aluminum:	-40250 °F
Polyamide/PVDF:	-20180 °F
Display + Output:	14140 °F (w/options: WM, PM)
	-40212 ° F (SS/Aluminum w/SC)
	-20180 °F (Polyamide/PVDF w/SC)
Wetted Materials	
SS Body:	316 SS, Ceramic,
	PVDF, Tungsten Carbide
Aluminum Body:	Aluminum, 316 SS, Ceramic,
	PVDF, Tungsten Carbide
Polyamide Body:	Polyamide, 316 SS, Ceramic,
	Tungsten Carbide,
	Ferrite (Manganese/Zinc)
High Flow Aluminum:	Aluminum, 316 SS, Ceramic,
	Polyamide, Tungsten Carbide,
	Ferrite (Manganese/Zinc)
PVDF Body:	PVDF (15% Carbon Fiber Filled),
	Ceramic, PVDF, FKM
Filtration Requirements:	$\frac{1}{2}$ "1" = 55 mesh (125 micron)
	1½2" = 28 mesh (500 micron)



Electrical Ratings

Onboard Display/Computers:

Input Power:	2x 3 VDC lithium batteries
Battery Life:	5 Years typical
Protection:	NEMA 4
OptionRD:	Remote display kit
Input Power:	Self-powered magnetic pickup
Cable Length:	10 ft supplied, 100 ft maximum
Protection:	NEMA 4

Option - ..WM: 4-20 mA Transmitter

Input Power:	
Output:	
Cable Length:	
Protection:	
Intrinsic Safety:	

7...30 V_{DC} loop powered 2-wire, 4-20 mA DC 10 feet provided NEMA 4 None

Option - .. PM: Pulse Transmitter with Display

Input Power: Output: Sink Current: Cable Length: Protection: Intrinsic Safety: 0...60 V_{DC} NPN open collector transistor 100 mA maximum 10 feet provided NEMA 4 None

Option - ..SC: Pulse Transmitter, without Display

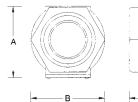
Input Power: Output: Sink Current: Cable Length: Protection: Intrinsic Safety: 9...35 V_{DC} NPN open collector transistor 4 mA maximum 10 feet provided NEMA 4 None

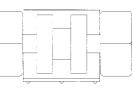


Order Details (Example: EDM-4202B)

Range (Water)		Accuracy	Fitting Size	Max dP	Model Number				
GPM	LPM	(% of Reading)	(NPT)	(PSI)	Model I	vumber			
Flowmeter with Stainless Steel or Aluminum Body									
	Stainless Steel								
110	3.838	2.0 1/2" 8 EDM-4201		EDM-4301					
220	7.676	1.5	3/4"	7.5	EDM-4202	EDM-4302			
550	19190	1.5	1"	5	EDM-4203	EDM-4303			
10100	38380	1.0	1 1/2"	4	EDM-4204	EDM-4304			
20200	76760	1.0	2"	4	EDM-4205	EDM-4305			
		Flo	wmeter with PVDF	Body					
1.212	4.545	2.0	1/2"	10	-	EDM-4401			
550	19190	1.5	1"	6	-	EDM-4403			
		Flowr	neter with Polyamic	de Body					
0.33	111	1.5	1"	2	-	EDM-4101			
350	11190	1.5	1"	5	-	EDM-4102			
		High Flow	Flowmeter with Alu	ıminum Body					
350	11190	1.5	1"	5	-	EDM-4307			
30300	1141135	1.5	2"	7	-	EDM-4309			
			Options						
		Desc	ription			Suffix			
Add-on Remote	Mounting Kit for Dis	olays				RD			
Add-on Pulse Frequency Transmitter Kit (Not for High Flow Aluminum and Polyamide meters)						PM			
Add-on Pulse Frequency Transmitter Kit in Place of Display						SC			
Add-on 4-20 mA	WM								
150 LB ANSI Flange Connection for 1", 1.5" and 2" Stainless Steel Flow Meters Only						F			
Tri-Clamp® Connection for St. Steel Flow Meters Only (Note: Tri-Clamp® fitting size is one size larger than fitting size)						Т			
ISO Threads						В			

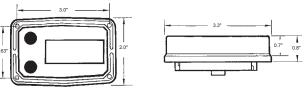
Flow Body Dimensions*





С

Display Dimensions



Fitting	SS/Aluminum			Polyamide		Aluminum High Flow			PVDF			
Size (NPT)	А	В	С	А	В	С	А	В	С	А	В	С
1/2"	1.8"	2.0"	4.2"	-	-	-	-	-	-	3.2"	2.1"	7.3"
3/4"	2.0"	2.0"	4.3"	-	-	-	-	-	-	-	-	-
1"	2.2"	2.0"	4.5"	2.53"	2.13"	4.06"	2.53"	2.13"	4.06"	3.3"	2.8"	8.1"
1 1/2"	2.8"	2.7"	5.3"	-	-	-	-	-	-	-	-	-
2"	3.2"	3.3"	6.3"	-	-	-	4.06"	3.00"	6.12"	-	-	-

 * Dimensions listed are for flow body only. For meters with display, add 0.70" to dimension A.