

Battery Powered Rate Meter and Totalizer



measuring
•
monitoring
•
analyzing

EDM



- 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



Order from: **C A Briggs Company**
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1801 Parkway View Drive
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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:** See 'Order Detail' table on page 3
- Fittings**
 - Standard:** Female NPT
 - Optional:** Female ISO Thread, Flange, Tri-Clamp®
- Maximum Pressure**
 - 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 (Operating)**
 - Onboard Display:** 0...140 °F
 - Remote Display**
 - SS/Aluminum:** -40...250 °F
 - Polyamide/PVDF:** -20...180 °F
 - Display + Output:** 14...140 °F (w/options: WM, PM)
-40...212 °F (SS/Aluminum w/SC)
-20...180 °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:**
 - ½"...1" = 55 mesh (125 micron)
 - 1½"...2" = 28 mesh (500 micron)



Electrical Ratings

Onboard Display/Computers:

- Input Power:** 2x 3 VDC lithium batteries
- Battery Life:** 5 Years typical
- Protection:** NEMA 4
- Option - ..RD:** 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:** 7...30 V_{DC} loop powered
- Output:** 2-wire, 4-20 mA DC
- Cable Length:** 10 feet provided
- Protection:** NEMA 4
- Intrinsic Safety:** None

Option - ..PM: Pulse Transmitter with Display

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

Option - ..SC: Pulse Transmitter, without Display

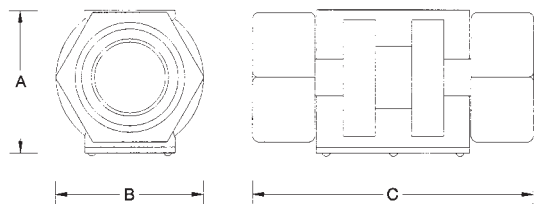
- Input Power:** 9...35 V_{DC}
- Output:** NPN open collector transistor
- Sink Current:** 4 mA maximum
- Cable Length:** 10 feet provided
- Protection:** NEMA 4
- Intrinsic Safety:** None



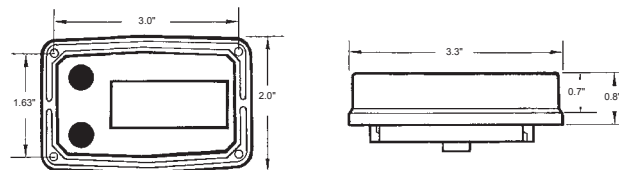
Order Details (Example: EDM-4202B)

Range (Water)		Accuracy (% of Reading)	Fitting Size (NPT)	Max dP (PSI)	Model Number	
GPM	LPM					
Flowmeter with Stainless Steel or Aluminum Body						
					Stainless Steel	Aluminum
1...10	3.8...38	2.0	1/2"	8	EDM-4201	EDM-4301
2...20	7.6...76	1.5	3/4"	7.5	EDM-4202	EDM-4302
5...50	19...190	1.5	1"	5	EDM-4203	EDM-4303
10...100	38...380	1.0	1 1/2"	4	EDM-4204	EDM-4304
20...200	76...760	1.0	2"	4	EDM-4205	EDM-4305
Flowmeter with PVDF Body						
1.2...12	4.5...45	2.0	1/2"	10	-	EDM-4401
5...50	19...190	1.5	1"	6	-	EDM-4403
Flowmeter with Polyamide Body						
0.3...3	1...11	1.5	1"	2	-	EDM-4101
3...50	11...190	1.5	1"	5	-	EDM-4102
High Flow Flowmeter with Aluminum Body						
3...50	11...190	1.5	1"	5	-	EDM-4307
30...300	114...1135	1.5	2"	7	-	EDM-4309
Options						
Description						Suffix
Add-on Remote Mounting Kit for Displays						..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 Analog Transmitter Kit (Not for High Flow Aluminum and Polyamide Meters)						..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)						..T
ISO Threads						..B

Flow Body Dimensions*



Display Dimensions



Fitting Size (NPT)	SS/Aluminum			Polyamide			Aluminum High Flow			PVDF		
	A	B	C	A	B	C	A	B	C	A	B	C
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.