

Truflo® — MF-1000

In-Line Magnetic Flow Meter

ICON™
PROCESS CONTROLS

Corrosion-Free
Instrumentation Equipment™

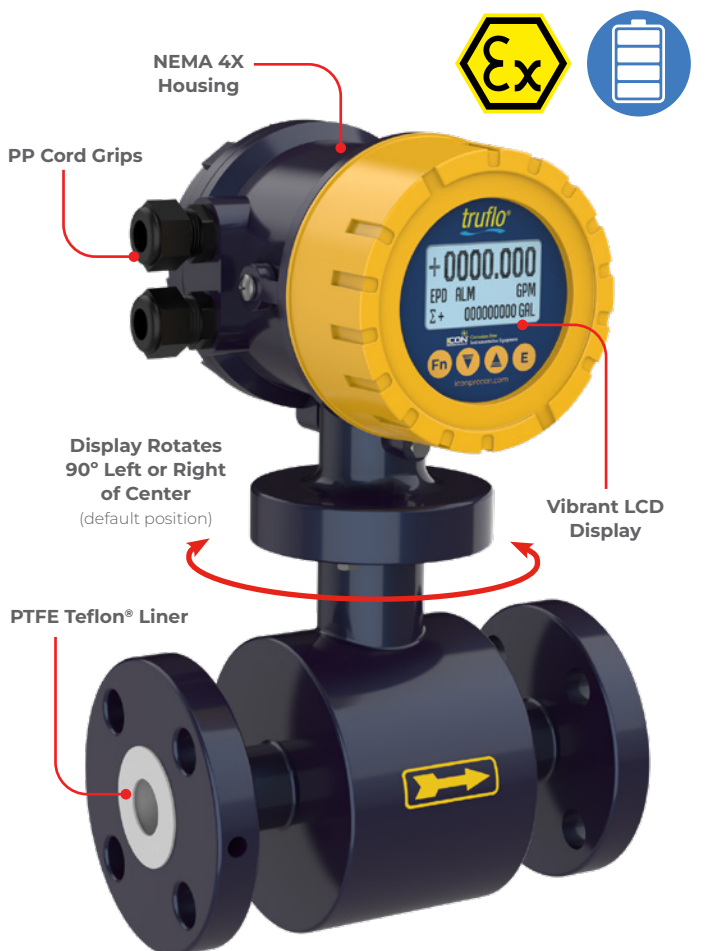


truflo®

Truflo® — MF-1000

In-Line Magnetic Flow Meter

- ✓ Full Port | No Pressure Drop
- ✓ No Moving Parts | No Clog Design
- ✓ Integral Display | Flow | Total | All-in-One



MF1000 Remote Type

Features

- ✓ High Accuracy: $\pm 0.5\%$ F.S.
- ✓ 4-20mA | Frequency Pulse | RS-485 | HART
- ✓ Standard PTFE Teflon® Liner
- ✓ Excellent Chemical Resistance
- ✓ NEMA 4X | IP65 Protection

Unmatched Precision and Durability: Discover the Truflo® MF-1000 Magnetic Flow Meter for All Your Challenging Applications

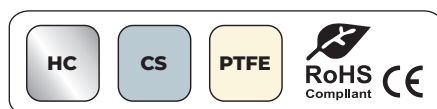
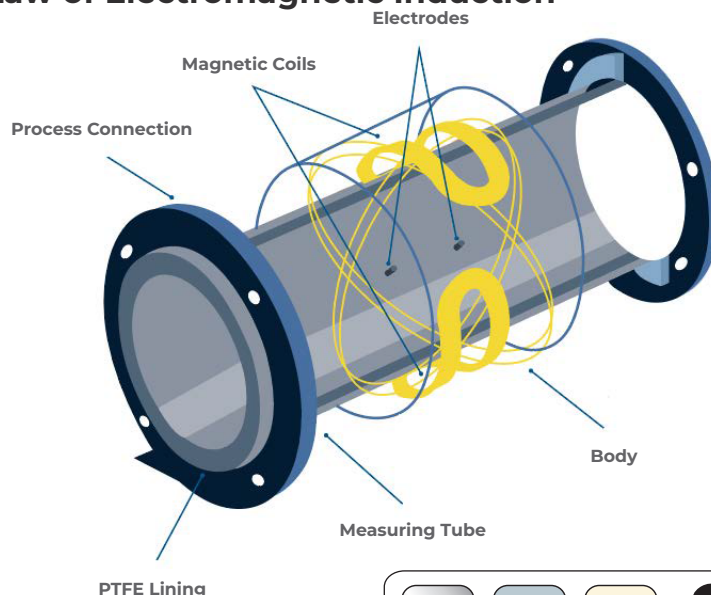
The Truflo® MF-1000 Series Flanged Magnetic Flow Meters provide long-lasting, reliable performance in even the most challenging applications. The MF-1000 is a microprocessor-based flow transmitter that has been engineered for high performance, easy installation, commissioning and maintenance.

The MF-1000 is truly robust, cost-effective and suitable for all-round applications and has a measuring accuracy of $\pm 0.5\%$ of the flow rate.

The Truflo® MF-1000 Series comes standard with a PTFE Teflon® liner, Carbon Steel body and Hastelloy C Electrodes. However, a variety of materials are available to ensure the flow meter is chemically compatible with your application.

Magnetic Flow Meter Structure

Working Principle Based on Faraday's Law of Electromagnetic Induction



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In-Line Magnetic Flow Meter



Technical Specifications

Flow Direction	Positive Negative Net Flow	Measurement Range	0.98 ~ 32.8 ft/s 0.3 ~ 10 m/s
Size Range	¾" to 20"	Ambient Temperature	-4°F to 140°F -20°C ~ 60°C
Repeatability	±0.1%	Process Temperature	23°F ~ 248°F -5°C ~ 120°C (PTFE)
Accuracy	±0.5%	Liner Material	PTFE Teflon® (Std)
Signal Output	4-20mA Frequency Pulse RS-485 HART	Body Material	Carbon Steel
Protection Class	IP65 NEMA4X	Electrode Material	Hastelloy C
Power Supply	18~36VDC 85 ~ 240VAC Battery (3800W)	Electrical Conductivity	≥ 20µS/cm
Converter	Integral Type Remote	Pressure	ANSI 150lb Flange: 285psi Max. ANSI 600lb Flange: 800psi Max.

Flow Rates

Size (inch)	DN (mm)	Velocity (ft/s)		
		V = 1.640	V = 16.404	V = 32.808
		Flow Rate (GPM)		
		(Min.)	(Calibrated)	(Max.)
¾"	10	0.62	6.16	12.33
½"	15	1.40	14.00	28.01
¾"	20	2.49	24.90	49.80
1"	25	3.89	38.90	77.80
1 ¼"	32	6.37	63.73	127.46
1 ½"	40	9.96	99.60	199.20
2"	50	15.56	155.62	311.24
2 ½"	65	26.30	263.07	526.14
3"	80	39.84	398.46	796.92
4"	100	62.23	622.34	1244.69
5"	125	97.26	972.59	1945.19
6"	150	140.05	1400.55	2801.10
8"	200	248.98	2489.82	4979.64
10"	250	388.99	3889.93	7779.86
12"	300	560.26	5602.65	11205.30
14"	350	762.80	7627.97	15255.93
16"	400	995.93	9959.29	19918.57
18"	450	1260.54	12605.41	25210.82
20"	500	1556.19	15561.93	31123.87

Standard Lengths

Size (inch DN)	Length (mm)	Size (inch DN)	Length (mm)
¾" - 2" 10 - 50	200	10" 250	450
2½" - 5" 65 - 125	250	12" 300	500
6" 150	300	14" 350	550
8" 200	350	16" - 20" 400 - 500	600

- Note:**
- The lengths mentioned are for PTFE & CS liners.
 - Lengths may vary for other liners.
 - Consider ± 2mm tolerance.

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Model Selection

Contact Factory for Alternative Lining Materials:
PFA | PUR(Polyurethane) | Neoprene | FEP Teflon®



MF1000 — In-Line Mag Meter	
Size	Part Number
3/8"	MF1000B-10-X-X-X-X-X-X
1/2"	MF1000B-15-X-X-X-X-X-X
3/4"	MF1000B-20-X-X-X-X-X-X
1"	MF1000B-25-X-X-X-X-X-X
1 1/2"	MF1000B-40-X-X-X-X-X-X
2"	MF1000B-50-X-X-X-X-X-X
3"	MF1000B-80-X-X-X-X-X-X
4"	MF1000B-100-X-X-X-X-X-X

MF1000 — In-Line Mag Meter	
Size	Part Number
6"	MF1000B-150-X-X-X-X-X-X
8"	MF1000B-200-X-X-X-X-X-X
10"	MF1000B-250-X-X-X-X-X-X
12"	MF1000B-300-X-X-X-X-X-X
14"	MF1000B-350-X-X-X-X-X-X
16"	MF1000B-400-X-X-X-X-X-X
18"	MF1000B-450-X-X-X-X-X-X
20"	MF1000B-500-X-X-X-X-X-X

MF1000B-15-A-A-A-A-A-A (MF1000Bxi-15-A-A-A-A-A-B)
xi = Explosion Proof ▶ Consult Factory for Pricing

- Electrode Type**
A: Hastelloy Hc
B: Hastelloy Hb
C: Tantalum
D: Titanium
E: 316 SS
F: Tungsten Carbide

Inner Lining Material
A: PTFE Teflon®
B: Neoprene
C: Polyurethane
D: FEP Teflon®

External Flange & Housing Material
A: Carbon Steel
B: Stainless Steel

Rating Pressure Level
A: 4.0 MPa

Convertor
A: Integrate Type
B: Remote

Voltage Supply
A: 24VDC
B: Battery
C: 120VAC

