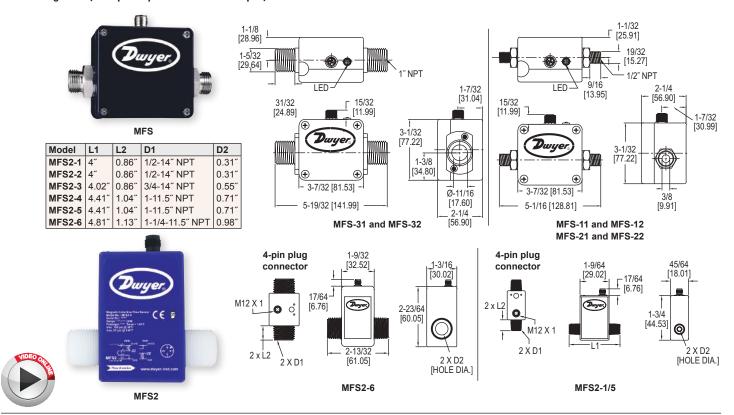
MAGNETIC INDUCTIVE FLOW SENSORS No Moving Parts, Frequency and 4-20 mA Output, Maintenance-Free



The Series MFS & MFS2 Magnetic Inductive Flow Sensors are compact, 316 SS body, in line flowmeters with pulse and optional analog 4-20 mA output. It is available in a variety of flow ranges from 0.25 to 52.8 GPM (1 to 200 LPM) and process connection sizes of 1/2" and 1" NPT.

BENEFITS/FEATURES

Flow Transmitters, ortromagnetic, In-Line

- · Long life cycle with no moving parts to wear or break
- · Can be applied in applications dealing with contaminated media with no mechanical component in the flow
- · Obstruction free pipe cross-section yields low pressure drop
- · Unaffected by change in temperature, density, viscosity or concentration

APPLICATIONS

- · Contaminated liquid flow monitoring
- · Flow of conductive liquids
- · Water and wastewater treatment
- · Industrial systems
- · Irrigation applications

SPECIFICATIONS

Service: Compatible, non-coating, conductive liquids.

Range: See model chart.

Wetted Materials: Electrodes: 316 SS; Process connections: MFS: 316 SS; MFS2: PVDF; Measuring pipe: MFS: PEEK-GF30; Gasket: EPDM.

Accuracy: MFS: ±2% of reading; MFS2: ±1% or reading.

Repeatability: 1%

Temperature Limits: MFS: Process: 32 to 194°F (0 to 90°C); Ambient: 41 to 158°F (5 to 70°C); MFS2: Process: 14 to 140°F (-10 to 60°C); Ambient: 41 to 140°F (5 to 60°C).

Pressure Limits: MFS: 232 psi (16 bar); MFS2: 145 psi (10 bar) @ 68°F (20°C); 116 psi (8 bar) @ 104°F (40°C); 87 psi (6 bar) @ 140°F (60°C).

Response Time: MFS: < 500 ms; MFS2:< 100 ms.

Power Requirements: 24 VDC ±10%

Power Consumption: 0.6 W.

Output: Frequency: Square-wave, NPN

or PNP; Analog: 4-20 mA. Loop Resistance: 250 Ω.

Current Consumption: Max 80 mA. Minimum Conductivity of Medium: 50

uS/cm.

Flow Indication: LED green, flow

proportional blinking.

Enclosure Rating: NEMA 4 (IP65). Process Connection: See model chart. Electrical Connection: Plug connector

Weight: MFS-1X: 1.5 lb (0.68 kg); MFS-2X: 1.7 lb (0.77 kg); MFS-3X: 1.9 lb (0.87 kg); MFS2-1, -2, -3, -4, -5: 8 oz (226.8 g); MFS2-6: 1 lb (0.45 kg).

MODEL	IODEL CHART					
		Minimum Output	Process			
Model	Range GPM (LPM)	Signal GPM (LPM)	Connection	Output		
MFS-11	0.25 to 5.3 (1 to 20)	0.13 (0.5)	1/2" NPT	Frequency		
MFS-21	0.5 to 10.5 (2 to 40)	0.25 (1)	1/2" NPT	Frequency		
MFS-31	2.5 to 52.8 (10 to 200)	1.3 (5)	1" NPT	Frequency		
MFS-12	0.25 to 5.3 (1 to 20)	0.13 (0.5)	1/2" NPT	Frequency and analog		

ACCESSORIES					
Model	Description				
MFS-C3	4 pin cable socket M12x1 connect, 9.8 ft (3 m)				
MFS-C5	4 pin cable socket M12x1 connect, 16.4 ft (5 m)				
MFS-C10	4 pin cable socket M12x1 connect, 32.8 ft (10 m)				



MODEL CHART								
		Process						
Model	Range GPM (LPM)	Connection	Output					
MFS2-1	0.07 to 1.3 (0.25 to 5)	1/2" male NPT	Frequency					
MFS2-2	0.26 to 5.3 (1.0 to 20)	1/2" male NPT	Frequency					
MFS2-3	0.66 to 13.2 (2.5 to 50)	3/4" male NPT	Frequency					
MFS2-4	1.3 to 26.4 (5.0 to 100)	1" male NPT	Frequency					
MFS2-5	2.6 to 52.8 (10 to 200)	1" male NPT	Frequency					
MFS2-6	3.3 to 66.0 (12.5 to 250)	1-1/4" male NPT	Frequency					