

FMS SERIES

ULTRA-SMALL ELECTROMAGNETIC FLOW SENSOR

Economical small-diameter flow sensor for reliable low flow measurement with fast response time.



Shown with compression tubing connectors.



The remote indicator displays flow rate and total flow. Features include alarm relays and a large bright LED display.

APPLICATIONS

- Water
- Brine
- Lime Slurries
- Landfill Leachate
- Fertilization
- Chemical Injection
- Caustics
- Acids
- Polymers
- Admixture Batching

FMS SERIES FEATURES

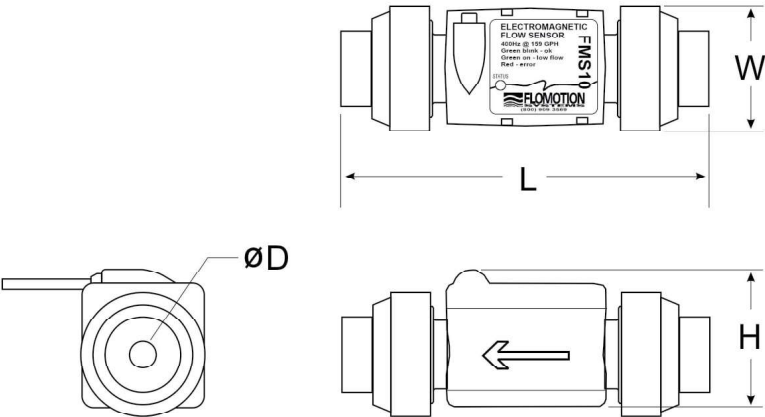
- Accuracy to $\pm 2.0\%$ of rate (steady flow)
- Compatible with pulsating flow pumps
- Flow range from 0.5 to 950 GPH
- Pressures to 150 PSI
- Volumetric flow rate measurement independent of fluid viscosity, density and temperature
- No moving parts for zero maintenance
- LED status indicator
- Empty Pipe Detection (standard)

INDICATOR/TOTALIZER SPECIFICATIONS

- NEMA 4X, IP65 Front
- Universal 85-265 VAC or 12/24 VDC Input Power
- Large Dual-Line 6-Digit Display, 0.60" & 0.46"
- Programmable Displays & Function Keys
- 2 or 4 Relays + Isolated 4-20 mA Output Options
- RS-232, RS-485 Serial Communication Options
- Modbus® RTU Communication Protocol Standard
- Display Rate & Total at the Same Time
- 9-Digit Totalizer with Total Overflow Feature
- Total Stored in Non-Volatile Memory
- Provides 24VDC power for FMS Series sensors.

Flow Range	0.5 to 950 GPH (50 to 90,000 ml/min)
Connection	Union with NPT, compression or socket inserts. PVC Standard, PTFE Optional.
Output	Pulse, Empty Pipe, Error, Alarm. NPN 20mA max.
Fluid	Minimum 15 μ S/cm conductivity
Wetted Materials	Configuration E: PEEK Body, Hastelloy C Electrodes, EPDM Elastomers Configuration F: PEEK Body, Titanium Electrodes, Viton (FKM) Elastomers
Fluid Temperature	32-104 °F (0 to 40°C)
Maximum Working Pressure	150 PSI @ 77°F
Sensor Enclosure	NEMA 4X
Sensor Power Requirements	24 VDC 100mA (+/- 10%)
Installation	Horizontal or Vertical (flowing up)
Accuracy (Pulse)	$\pm 2.0\%$ RS (100%~20% of the maximum working flow-rate (Qmax)) $\pm 0.4\%$ FS (20%~5% of the maximum working flow-rate (Qmax))
Sensor Weight (approx.)	7 oz. (FMS05, FMS10) 10.6 oz. (FMS20)

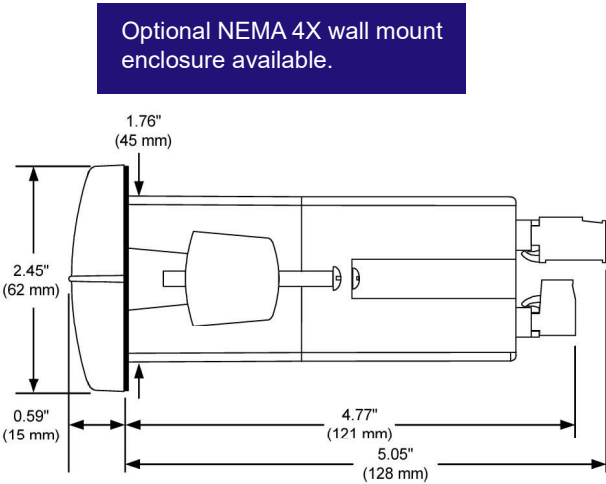
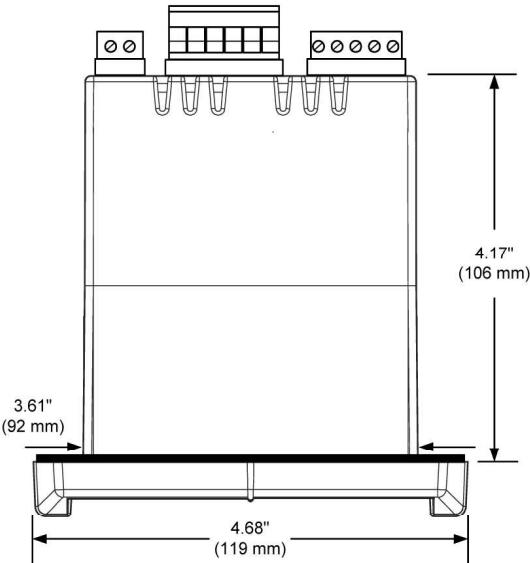
SENSOR DIMENSIONS



	FMS05	FMS10	FMS20
FLOW GPH	0.5 - 15.8	5 - 159	45 - 950
L**	5.55" (141mm)	5.55" (141mm)	6.73" (171mm)
W	1.89" (48mm)	1.89" (48mm)	2.36" (60mm)
H	2.01" (51mm)	2.09" (53mm)	2.52" (64mm)
ØD	0.205" (5.2mm)	0.394" (10mm)	0.787" (20mm)
Connection*	1/2" Union	1/2" Union	1" Union
K-Factor	91139.241	9056.604	1515.79

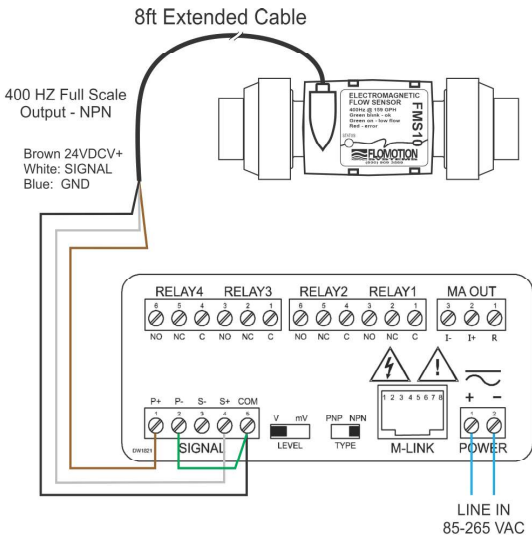
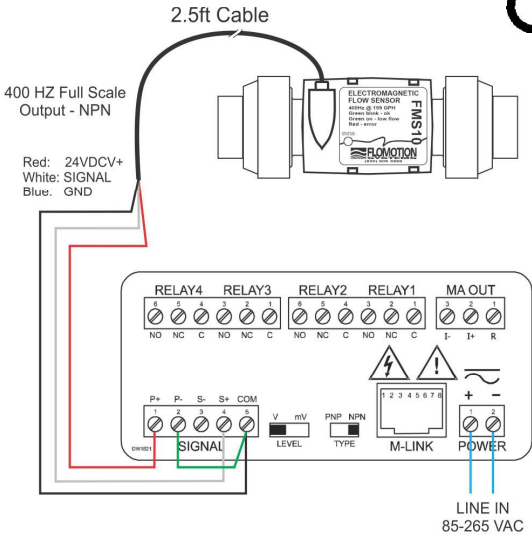
* NPT, compression or socket insert optional.
** Length (L) shown with NPT process connections

INDICATOR / TOTALIZER DIMENSIONS



Optional NEMA 4X wall mount enclosure available.

SENSOR WIRING



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