

CROSS SMART SENSOR

DM7 Electromagnetic Flow Meter

Digital technology for optimized measures



DESCRIPTION

The DM7 is an In-Line electromagnetic flow meter to measure the volume flow of conductive liquids. It features a state-of-the-art EM sensor and an integral or remote transmitter which provides RS485 Modbus RTU digital interface and optional 4-20mA & pulse outputs. The unique flow through sensor design is available in corrosion resistant wetted materials such as 316SS, Titanium, Tantalum, or Hastelloy B & C. The DM7 can be installed quickly and securely into a wide selection of pipe sizes ranging from ½" to 80" (DN10 to DN2000). It delivers accurate flow measurement and long-term reliability that minimizes maintenance costs.

APPLICATION

MUNICIPAL WATER AND WASTEWATER

Water

- Distribution
- Effluent
- Pumping Stations
- UV Dosing
- Filter Balancing and Backwash
- Wells & Booster Stations

Wastewater

- Effluent
- Recycle / Reclaim

INDUSTRIAL FACILITIES

- Cooling Water
- Fire Water
- Feed Water
- Raw Water
- Inlet to Surge Basin
- Effluent Wastewater

FEATURES & BENEFITS

- ☐ Unaffected by changes in fluid density, viscosity, temperature, and pressure
- ☐ No obstructing components in pipeline flow
- ☐ Applicable for wide range size of pipes over wide flow ranges
- ☐ Local or remote display configurations
- ☐ Robust construction with no moving parts
- ☐ Corrosion resistant electrodes and lining
- ☐ Optional watertight (IP68) model
- ☐ Optional integral display, 4 to 20 mA and pulse output
- ☐ Fully compatible with PC software Delta-Phase View™
- ☐ Low-cost for purchase, installation and ownership

SPECIFICATIONS

Measuring Principle	Faraday's Law of induction
Measuring Range	1 ft/s to 33 ft/s (0.3 m/s to 10 m/s)
Pipe size range	1/2" to 80" (DN10 to DN2000); Contact factory for other sizes
Accuracy	±1% from 1 ft/s to 32 ft/s (0.3 m/s to 10 m/s)
Linearity	1% of reading
Repeatability	±0.5% of reading
Units	Metric or English units selectable
Ambient Temp.	-20 to 140 °F (-4 to 60°C) without display
Operating Pressure	2.5MPa(<DN65), 1.6MPa(DN65 to DN200), 1.0MPa(DN250 to DN600), 0.6MPa(≥DN700)
Wetted Liner Materials	Varies, depends on temperature: Rubber, high temp rubber, PTFE, high temp PTFE, or PFA
Electrode Materials	Varies, depends on application: 316L SS, titanium, tantalum, Hastelloy, or platinum-iridium
Flow body Materials	Carbon Steel Standard. Consult factory for other options.
Power Supply	90 to 230 VAC, 50/60 Hz; 24VDC (18 to 36VDC); < 20 watts
Digital Interface	RS485 Modbus RTU, optional Hart, Profibus, FF etc.
Output & Display	4-20mA + pulse outputs
Mounting	In-line flange
Size & Weight	Integral Transmitter: Dia. 5.5" (140mm), Length 8.3" (210mm); 4.6 lbs. (2.1 kg). Remote Transmitter: W6.5XH10.4XD3.6" (165X265X92mm); 4.9 lbs. (2.2 kg).

Specifications subject to change without notice.

ORDER CODE

DM7 Electromagnetic Flow Meter

	-FR Flange Remote model -FI Flange integrate model with display			
	Nominal Pipe Diameter XXX DN10 to DN2000			
	Electrode Material - Default, Stainless Steel 316L -Ti Titanium -Ta Tantalum -HB Hastelloy B -HC Hastelloy C			
	Lining material - Default, PTFE Lining below DN65 & Chloroprene Rubber Lining above DN65 -CR Chloroprene Rubber -PT PTFE			
	Power Supply -AC 90 to 230VAC -DC 24VDC			
DM7	-FR	300	-	-AC



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