

CROSS SMART SENSOR

DM7 Electromagnetic Flow Meter

Digital technology for optimized measures



DESCRIPTION

The DM7 is a non-insertion electromagnetic flow sensor to measure the volume flow of conductive liquids. It features a state-of-the-art electromagnetic sensor and an integral 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 POM/316L or Titanium. The DM7 can be installed quickly and securely into a wide selection of pipe sizes ranging from DN10 to DN800. 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, 4-20 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 32" (DN10 to DN800)
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
Power Supply	90 to 230 VAC, 50/60 Hz; 24VDC (18 to 36VDC); < 20 watts
Digital Interface	RS485 Modbus RTU
Output & Display	4-20mA + pulse outputs
Mounting	In-line flange
Weight	3.75 lbs. (1.7 kg) for 12 inch sensor

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 DN800
	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



DELTA-PHASE ELECTRONICS, INC.
3 Peters Canyon Rd, Suite 100.,
Irvine, CA 92606 U.S.A.
Phone: (949) 701-7728
<http://www.delta-phase.us>

Represented by: