

FaraMag™ FM750

Electromagnetic Flow Meters



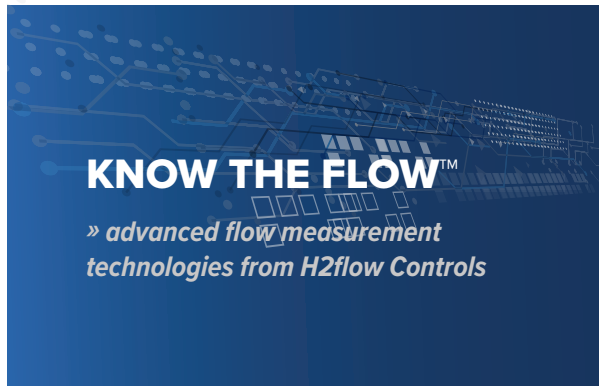
QUALITY DOESN'T HAVE
TO BE EXPENSIVE...
BUT IT IS PRICELESS!



ASSEMBLED IN THE USA
USING GLOBALLY SOURCED COMPONENTS



www.h2flow.net



KNOW THE FLOW™

Introducing FaraMag™ FM750 electromagnetic flow meters from H2flow Controls. H2flow Controls has a rich history of providing quality products to a multitude of fluid-handling markets. The FaraMag™ FM750 mag meter continues this tradition by combining unparalleled quality and staggering accuracy with essential features and options.

Since our inception, H2flow Controls has developed specialist competence in products that are used to control, protect and measure processes. FaraMag™ FM750 mag meters set the industry benchmark in liquid measurement that is both highly accurate and affordable with precise, reliable flow measurement of liquids having a conductivity of $\geq 5\mu\text{S}/\text{cm}$.

WHERE PRECISION MEETS RELIABILITY



ACCURACY

FaraMag™ mag meters are ideal for many critical applications because of their incredible precision and reliability. Across the entire model range, FaraMag™ FM750 flow meters boast an impressive 99.5% average accuracy. Refer to the table on this page for average accuracy at specific flow rates.

DIAMETER Inches (DN)	RANGE GPM / m/s	ACCURACY
0.5 - 0.75" (DN15 - DN20)	< 4,755 GPM; (< 0.3 m/s)	±0.25% FS
	4,755 - 15,850 GPM; (0.3 - 1 m/s)	±1.0% R
	15,850 - 237,754 GPM; (1 - 15 m/s)	±0.5% R
1" - 24" (DN25 - DN600)	< 4,755 GPM; (< 0.3 m/s)	±0.25% FS
	4,755 - 15,850 GPM; (0.3 - 1 m/s)	±0.5% R
	15,850 - 237,754 GPM; (1 - 15 m/s)	±0.3% R
28" - 120" (DN700 - DN3000)	< 4,755 GPM; (< 0.3 m/s)	±0.25% FS
	4,755 - 15,850 GPM; (0.3 - 1 m/s)	±1.0% R
	15,850 - 237,754 GPM; (1 - 15 m/s)	±0.5% R

% FS: Relative Range

% R: Relative Measurement

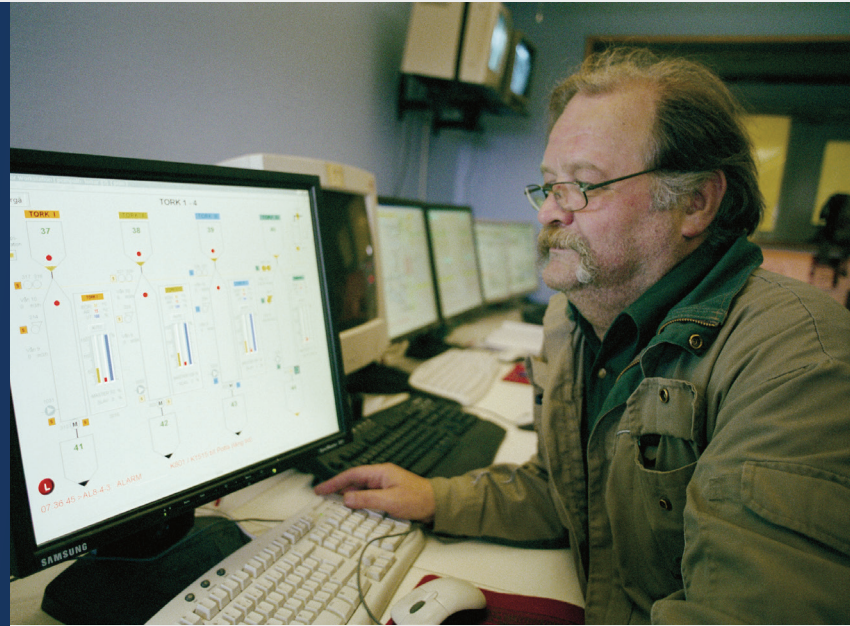
RELIABILITY

Like all H2flow Controls products, FaraMag™ mag meters offer an uncompromising commitment to quality and reliability. In addition to a wide array of features and benefits, users will appreciate the user-friendly menu interface, the available factory support, and FaraMag's 2-year warranty.

In a world where water is becoming increasingly scarce, measurements of potable water need to be as accurate as possible, as they form a basis for efficient usage and for the billing of water consumption. Every single FaraMag FM750 is wet-calibrated prior to leaving the factory. A hard copy of the calibration report is included with the purchase of each unit.

KEY FEATURES & BENEFITS

- No moving parts to impede the flow
- Bi-directional flow measurement
- Intuitive controls and available remote control for simplified programming
- LCD backlit display
- Long operating life
- IP65, IP67 and IP68 protection classes available
- Select from a multitude of available units of measurement
- Available for 0.5 to 120-inch (DN15 to DN3000) pipe diameters
- Pressure-rated for 87 to 580psi (6 to 40 Bar)
- Available with ANSI, DN and Tri-clamp flanges
- Accuracy $\pm 0.5\%$ of the displayed value
- 8 programming languages: English, Spanish, French, Portuguese, Turkish, Russian, Korean, Simplified Chinese, Traditional Chinese
- Self-diagnosis and auto detection feature
- Displays instantaneous flow or cumulative flow
- 120-230VAC, 12-24VDC and 3.6V lithium battery power supply options



DATA COMMUNICATION OPTIONS

Our equipment is commonly used for applications where precision accuracy is critical. Supporting processes like water abstraction, custody transfer, and zoning for water balance requires the availability of important data such as forward and reverse flows, flow totalization, pressure, temperature and more.

With FaraMag™, all of this is possible. Data can also be shared via pulse or 4-20mA, and Modbus RTU RS485 or HART protocols.



Scan to learn
more about
the FaraMag™
flow meter



FARAMAG™ SERIES - THE PERFECT SOLUTION FOR YOUR APPLICATION



FaraMag FM750 Products

FaraMag is a versatile solution. Regardless of your application demands, there's likely an ideal solution for you. Use the table below to determine the configuration that best suits your needs.

Sensor Body



Inline; Carbon Steel



Inline; 316 Stainless Steel



Insertion; 316 Stainless Steel

Features:

- ANSI, DN and Tri-clamp connection options
- 0.5 - 120" pipe diameters

Signal Converter



Compact Type



Remote Type

Features:

- Converter displays are backlit LCD
- Standard cable length of Remote Type is 32ft. May be extended as needed

Power Supplies

- 120/230VAC
- 12/24VDC
- 3.6V Lithium Battery

Liner Materials

- Neoprene
- PTFE
- Polyurethane
- F46
- PFA

Electrodes

- 316 Stainless Steel
- Hastelloy B
- Hastelloy C
- Titanium
- Platinum Iridium
- Ta
- SS Tungsten Carbide

Communication

- HART®
- Modbus RS485
- Modbus RS232
- Profibus DP
- GPRS

Protection

- NEMA 4 / IP65
- NEMA 6P / IP68 (sensor); NEMA 4 / IP65 (converter)
- NEMA 6P / (IP68 sensor & converter); battery-powered model

Options

- Grounding Rings
- Scraper Electrode
- High Frequency Converter
- Handheld Remote Controller
- Explosion-Proof Converter
- Flame-Proof Converter
- Pressure Sensor
- Temperature Sensor
- 316SS Converter (Remote Type only)



TYPICAL INDUSTRIES & APPLICATIONS

- Water & Wastewater
- Irrigation & Agriculture
- Chemical & Petrochemical
- Oil & Gas
- Process Manufacturing
- Pharmaceutical
- Food & Beverage
- Mining & Aggregate
- Ground Water & Reclamation
- Cooling Towers
- Wineries & Beer Breweries

FARAMAG VERSUS THE COMPETITION

A number of key product features and market factors position the FaraMag FM750 favorably versus competing electromagnetic flow meters:

- Low cost of ownership
- Short lead times
- Unique features, such as handheld remote controller and LCD backlit display
- Wide array of equipment options

TECHNICAL SPECIFICATIONS	
Diameter Range	0.5-inch to 120-inch (DN15 to DN3000)
Pressure Rating	87 - 580 psi (6 - 40 Bar)
Flange Types	ANSI, DN, Tri-clamp (optional for 304SS and 316SS only)
Body Material	Carbon Steel, 316 Stainless Steel (optional)
Inner Liner	Neoprene, PTFE (optional), Polyurethane (optional), F46 (optional), PFA (optional)
Measuring Electrodes	316 Stainless Steel, Hastelloy (optional), Titanium (optional), Tantalum (optional), Platinum-iridium alloy (optional), Stainless Steel covered with Tungsten Carbide (optional)
Accuracy	±0.25% of the measured value (Relative Range) ±1.0% of the measured value (Relative Measurement)
Class of Protection	IP67: sensor (IP68 optional) IP65: convertor (IP67 optional)
Standards	Product Standard: JB/T 9248-1999 Electromagnetic Flowmeter Calibration Standard: JJG 1033-2007 Ex-proof Mark: Exd [ia]IICt5, Exmd IICT4 CE Certification ISO: 9001 Certified
Communication Options	Modbus RS232 protocol, Modbus RS485 protocol, HART communication protocol, Profibus DP communication protocol, GPRS Wireless Communication
Additional Hardware Options	Grounding Rings, Scraper Electrodes, High Frequency Converter with Strengthened Coils, Handheld Remote Controller, Intrinsically Safe Explosion-Proof Converter, Flame-Proof Converter, Temperature Sensor, Pressure Sensor, 316SS Converter

OPERATING CONDITIONS			
Medium Temperature	Integrated Type	-4°F - +158°F (-20°C - +70°C)	
	Remote Type	Neoprene & Polyurethane Liner	-4°F - +140°F (-20°C - +60°C)
		PTFE Liner / PFA Liner / F46 Liner	-40°F - +356°F (-40°C - +180°C)
Ambient Temperature		-13°F - +140°F (-25°C - +60°C)	
Ambient Humidity		5 - 100% RH (relative humidity)	
Medium Electrical Conductivity		≥5μs/cm	
Maximum Percentage Solids Content (by volume)		40%	
Measuring Range		1500:1, flow rate <15m/s	

Progress through Innovation™

Our innovative solutions are developed with a focus on controlling, monitoring and measuring flow.

Contact your authorized H2flow Controls solutions provider to find out how our products can help you and your customers.

Find an authorized partner at www.h2flow.net/locate-a-partner

FLOW METERS | POWER MONITORS | AC DRIVES | SOFT STARTERS

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FaraMag FM750 brochure Rev.1.5

