ELECTROMAGNETIC FLOWMETER

**FMG600 Series
Starts at**

$3450

1 YEAR WARRANTY CE NIST

✔ **Virtually No Pressure Loss**

✔ **No Moving Parts**

✔ **ANSI 150# Flanges or Tri-Clover Sanitary Mount**

✔ **RS485 Standard**

✔ **Suitable for Pipes Up to 305 mm (12")**

✔ **High Accuracy**

✔ **4 to 20 mA and Frequency Outputs Standard**

✔ **NIST 3-Point Calibration Included**

FMG606, 51 mm (2") meter with 150# flanges, $3650, shown smaller than actual size.

EXCLUSIVELY FROM OMEGA!

H

The FMG600 Series electromagnetic flowmeters are designed for measurement of conductive liquids. With no moving parts and a PTFE lining, they can handle applications involving wastewater, pulp, food, and slurries. Standard outputs include analog, frequency, and RS485 communications. Optional sanitary tri-clamp mounting allows use of the FMG600 flowmeters in applications not previously open to magmeters. Local- and remote-display models are available.

SPECIFICATIONS

Flange Sizes:
150# ANSI: 19 to 305 mm (¾ to 12")
Sanitary Tri-Clamp: 13 to 305 mm (½ to 12")
Maximum Pressure: 145 psi
Minimum Conductivity: 20 µS
Electrode Material: Hastelloy C4 (standard), tantalum (TGE optional)
Environmental Temperature: -5 to 55°C (23 to 131°F)
Sensor Lining: PTFE

Electronics Housing: Local or remote (optional)
Liquid Temperature: 0 to 50°C (32 to 122°F) STD, 0 to 150°C (32 to 302°F) with remote electronics
Empty Pipe Alarm: Available on 2" and larger sizes (-EPD option)
Accuracy: ±0.5% from 5 to 100% Qs, ±1% from 1 to 5% Qs
Range: 0.1 to 10 m/s (0.328 to 32.81 fps)
Outputs: Adjustable from 0.1 to 1000 gallons/pulse

Current: 4 to 20 mA with galvanic isolation
Frequency: 0 to 1000 Hz with galvanic isolation
Communications: RS485
Power: 24 Vdc, 115/230 Vac switchable (optional)
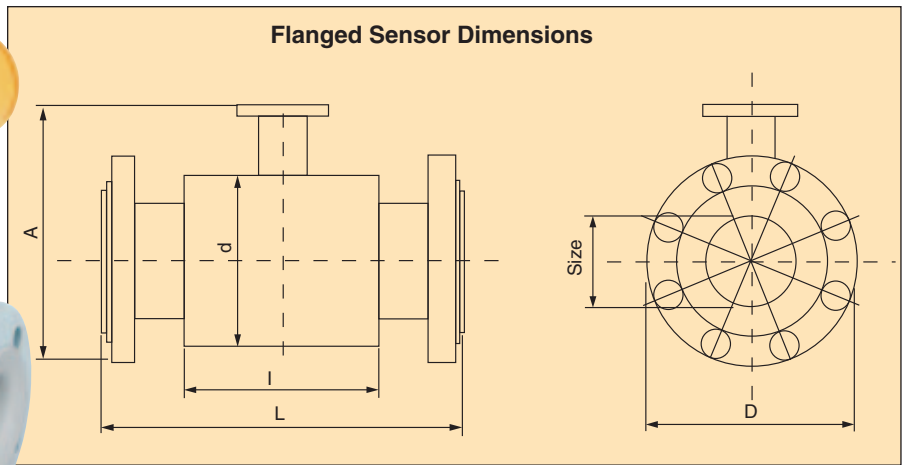**Consumption:** 15 VA
Protection: IP67
Storage Temperature and Humidity: -10 to 70°C (14 to 158°F) at max; relative humidity 70%

H-X

NEW

FMG605, $3529, shown smaller than actual size.
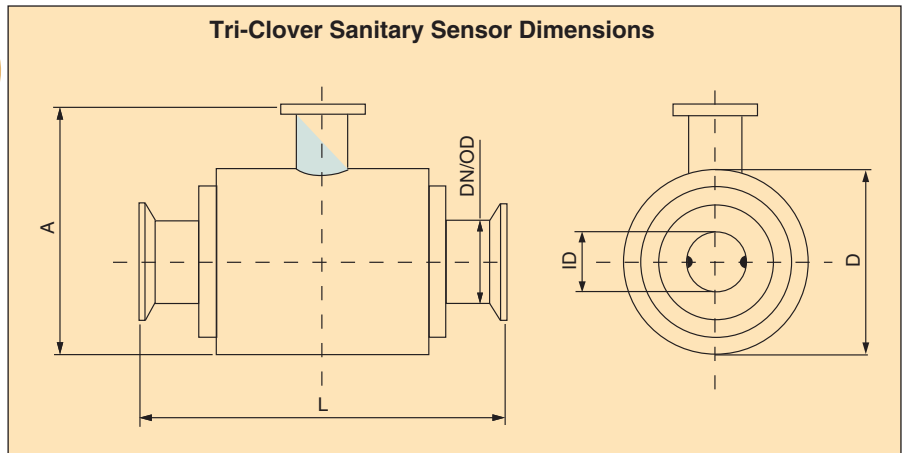
Flanged Sensor Dimensions

Flanged Sensor Dimensions

Nominal size mm (in)	D mm (in)	d mm (in)	A mm (in)	L mm (in)	l mm (in)	Weight kg (lb)
15 (½)	89 (3.5)	62 (2.4)	164 (6.5)	200 (7.9)	66 (2.6)	3.5 (7.7)
20 (¾)	99 (3.9)	62 (2.4)	170 (6.7)	200 (7.9)	66 (2.6)	3.5 (7.7)
25 (1)	108 (4.3)	72 (2.8)	180 (7.1)	200 (7.9)	96 (3.8)	3.5 (7.7)
32 (1¼)	117 (4.6)	82 (3.2)	199 (7.8)	200 (7.9)	96 (3.8)	6 (13.2)
40 (1½)	127 (5.0)	92 (3.6)	209 (8.2)	200 (7.9)	96 (3.8)	7 (15.4)
50 (2)	152 (6.0)	107 (4.2)	223 (8.8)	200 (7.9)	96 (3.8)	8 (17.6)
65 (2½)	178 (7.0)	127 (5.0)	244 (9.6)	200 (7.9)	96 (3.8)	10 (22.0)
80 (3)	191 (7.5)	142 (5.6)	260 (10.2)	200 (7.9)	96 (3.8)	12 (26.5)
100 (4)	229 (9.0)	162 (6.4)	280 (11.0)	250 (9.8)	96 (3.8)	16 (35.3)
125 (5)	254 (10.0)	192 (7.6)	310 (12.2)	250 (9.8)	126 (5.0)	21 (46.3)
150 (6)	279 (11.0)	218 (8.6)	340 (13.4)	300 (11.8)	126 (5.0)	28 (61.7)
200 (8)	343 (13.5)	274 (10.8)	398 (15.7)	350 (13.8)	211 (8.3)	35 (77.2)
250 (10)	406 (16.0)	370 (14.6)	480 (18.9)	450 (17.7)	211 (8.3)	43 (94.8)
300 (12)	483 (19.0)	420 (16.5)	535 (21.1)	500 (19.7)	320 (12.6)	55 (121.3)

FMG601-S, $4120, shown smaller than actual size.
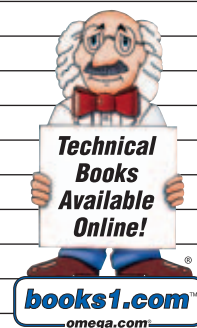

Tri-Clover Sanitary Sensor Dimensions

Nominal Size DN mm (in)	ID mm (in)	D mm (in)	A mm (in)	L mm (in)	Weight kg (lb)
15 (½)	9.40 (0.37)	74 (2.90)	143 (5.6)	137 (5.4)	3.5 (1.6)
20 (¾)	15.75 (0.62)	74 (2.90)	143 (5.6)	137 (5.4)	3.5 (1.6)
25 (1)	22.10 (0.87)	74 (2.90)	143 (5.6)	137 (5.4)	3.7 (1.7)
40 (1½)	34.80 (1.37)	94(3.70)	163 (6.4)	137 (5.4)	4.8 (4.8)
50 (2)	47.50 (4.1)	104 (1.87)	173 (6.8)	137 (5.4)	N/A
65 (2½)	60.20 (2.37)	129 (5.10)	199 (7.8)	192 (7.6)	N/A

Weights of the sensors are approximate.

H-X

To Order *(Specify Model Number)*

Model No.	Price	Size: mm (in)	Max GPM	Description
FMG601-S	$4120	15 (½)	11	SS sanitary mount magmeter with empty pipe detection
FMG601-S-R	4728	15 (½)	11	SS Sanitary mount magmeter with empty pipe detection and remote display
FMG602	3450	20 (¾)	52	150# ANSI flange magmeter with empty pipe detection
FMG602-R	4041	20 (¾)	52	150# ANSI flange magmeter with empty pipe detection and remote display
FMG602-S	4206	20 (¾)	31	SS sanitary mount magmeter with empty pipe detection
FMG602-S-R	4797	20 (¾)	31	SS sanitary mount magmeter with empty pipe detection and remote display
FMG603	3476	25 (1)	79	150# ANSI flange magmeter with empty pipe detection
FMG603-R	4059	25 (1)	79	150# ANSI flange magmeter with empty pipe detection and remote display
FMG603-S	4276	25 (1)	61	SS sanitary mount magmeter with empty pipe detection
FMG603-S-R	4867	25 (1)	61	SS sanitary mount magmeter with empty pipe detection and remote display
FMG604	3520	32 (1¼)	132	150# ANSI flange magmeter with empty pipe detection
FMG604-R	4102	32 (1¼)	132	150# ANSI flange magmeter with empty pipe detection and remote display
FMG604-S	4380	32 (1¼)	96	SS sanitary mount magmeter with empty pipe detection
FMG604-S-R	5041	32 (1¼)	96	SS sanitary mount magmeter with empty pipe detection and remote display
FMG605	3529	40 (1½)	198	150# ANSI flange magmeter with empty pipe detection
FMG605-R	4120	40 (1½)	198	150# ANSI flange magmeter with empty pipe detection and remote display
FMG605-S	4589	40 (1½)	151	SS sanitary mount magmeter with empty pipe detection
FMG605-S-R	5214	40 (1½)	151	SS sanitary mount magmeter with empty pipe detection and remote display
FMG606	3650	50 (2)	317	150# ANSI flange magmeter
FMG606-R	4233	50 (2)	317	150# ANSI flange magmeter and remote display
FMG606-S	4797	50 (2)	281	SS sanitary mount magmeter
FMG606-S-R	5440	50 (2)	281	SS sanitary mount magmeter and remote display
FMG607	3772	65 (2½)	528	150# ANSI flange magmeter
FMG607-R	4363	65 (2½)	528	150# ANSI flange magmeter and remote display
FMG607-S	5006	65 (2½)	451	SS sanitary mount magmeter
FMG607-S-R	5788	65 (2½)	451	SS sanitary mount magmeter and remote display
FMG608	3928	80 (3)	793	150# ANSI flange magmeter
FMG608-R	4519	80 (3)	793	150# ANSI flange magmeter and remote display
FMG609	4189	100 (4)	1233	150# ANSI flange magmeter
FMG609-R	4771	100 (4)	1233	150# ANSI flange magmeter and remote display
FMG610	4919	125 (5)	1893	150# ANSI flange magmeter
FMG610-R	5501	125 (5)	1893	150# ANSI flange magmeter and remote display
FMG611	5606	150 (6)	2862	150# ANSI flange magmeter
FMG611-R	6196	150 (6)	2862	150# ANSI flange magmeter and remote display
FMG612	8456	200 (8)	5063	150# ANSI flange magmeter
FMG612-R	9047	200 (8)	5063	150# ANSI flange magmeter and remote display
FMG613	10,533	250 (10)	7925	150# ANSI flange magmeter
FMG613-R	11,115	250 (10)	7925	150# ANSI flange magmeter and remote display
FMG614	12,896	300 (12)	11,100	150# ANSI flange magmeter
FMG614-R	13,479	300 (12)	11,100	150# ANSI flange magmeter and remote display
FW-204	250			Reference Book: The Consumer Guide to Vortex Shedding Flowmeters

H

Technical Books Available Online!

books1.com
omega.com

Optional Equipment:
For units with switchable 115/230 Vac power, add *"-VAC"* to the model number and subtract **$100** from the price.
For empty pipe detection on units 2" and larger, add *"-EPD"* to the model number and add **$300** to the price.
For units with a batching option, add *"-B"* to the model number and add **$320** to the price.
For units with tantalum electrodes, add *"-TE"* to the price and add **$490** to the price.
If a third tantalum grounding electrode is needed, add *"-TGE"* to the model number and add **$250** to the price.
If a third hastelloy grounding electrode is needed, add *"-HGE"* to the model number and add **$200** to the price.
For a 4-point NIST calibration, add *"-NIST4"* to the model number and add **$520** to the price.
For a 10-point NIST calibration, add *"-NIST10"* to the model number and add **$1040** to the price.
Comes complete with operator's manual and 3-point NIST calibration certificate.

Ordering Examples: FMG606-R-EPD, 2", 150# flange mount magmeter with remote electronics and empty pipe detection, $4233 + 300 = **$4533.**
FMG605-NIST4, 150# flange mount magmeter with optional 4-point NIST calibration, $3529 + 520 = **$4049.**

omega.co.uk ®
Your One-Stop Source for Process Measurement and Control!

UNITED STATES
www.omega.com
1-800-TC-OMEGA
Stamford, CT.

UNITED KINGDOM
www. omega.co.uk
Manchester, England
0800-488-488
+44-(0)161-777-6611

CANADA
www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

FRANCE
www.omega.fr
0800-466-342

GERMANY
www.omega.de
Deckenpfronn, Germany
0800-8266342

BENELUX
www.omega.nl
0800-099-33-44

More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ehernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters