



WEDGE FLOWMETER DIFFERENTIAL PRESSURE DESIGN

**Economical
Unique Design**

FW1000 Series

\$555

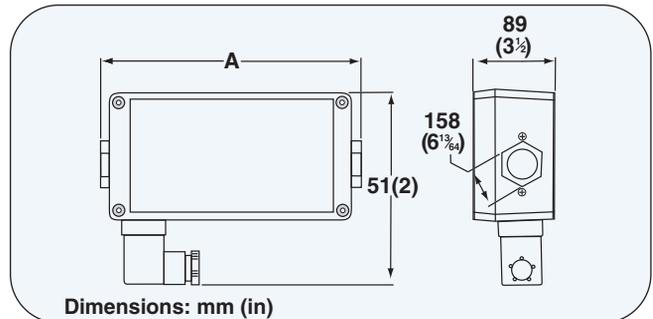
All Models



FW1105, \$555, shown smaller than actual size.

- ✓ No Required Inlet or Outlet Straight Plumbing
- ✓ High Accuracy and Repeatability
- ✓ Compact and Rugged
- ✓ Linear Analog Output

The FW1000 Series are minimally invasive, low-cost segmented wedge flow sensors. The segmented wedge element provides a simple and reliable restriction for sensing flow as related to pressure differential. The FW1000 design allows users to install the meter in any full pipe orientation (horizontal, vertical or inverted). It is compact and rugged measuring less than 254 mm (10") long and 89 mm (3½") wide, with a flanged mounting base for simple installation. This series is offered with several ranges of calibration to accommodate the requirements typical to process water applications. Three standard NPT port sizes are available to accommodate installations. The standard unit can also be converted to a 1 to 10 Vdc output in the field.



SPECIFICATIONS

Accuracy: ±2% of full-scale

Repeatability: ±0.5% of full-scale

Maximum Operating Pressure: 8.6 bar (125 psig)

Maximum Operating Temperature: 76°C (170°F)

Standard Test Media: Tap water @ 21°C (70°F)

Electronic Output:

Standard: 0 to 5 Vdc, 1 to 10 Vdc

Optional: 4 to 20 mA

Power Requirements: 12 to 35 Vdc

Flow Measuring Range: 0.5 to 15 GPM (1.9 to 57 LPM) full-scale

Turn Down Ratio: 10:1

Maximum Current Consumption: <50 m Adc

Minimum Load Resistance: 1000 Ω

Maximum Transmission Distance: <61m (<200')

Resolution: Infinite

Response Time: <500 ms to 90% (step change)

Protection: Short circuit, transient and reverse polarity

End Ports: PVC

Wedge Element: PVC

Pressure Sensor: Polyetherimide

Electrical Enclosure: Polycarbonate

Size	3/8 Female NPT	1/2 Female NPT	3/4 Female NPT
A	197 (7¾)	197 (7¾)	254 (10)

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description
FW1105	\$555	PVC wedge flowmeter 3/8 NPT, 0.5 to 5 GPM
FW1110	555	PVC wedge flowmeter 3/8 NPT, 1 to 10 GPM
FW1115	555	PVC wedge flowmeter 3/8 NPT, 1 to 15 GPM
FW1205	555	PVC wedge flowmeter 1/2 NPT, 0.5 to 5 GPM
FW1210	555	PVC wedge flowmeter 1/2 NPT, 1 to 10 GPM
FW1215	555	PVC wedge flowmeter 1/2 NPT, 1 to 15 GPM
FW1305	555	PVC wedge flowmeter 3/4 NPT, 0.5 to 5 GPM
FW1310	555	PVC wedge flowmeter 3/4 NPT, 1 to 10 GPM
FW1315	555	PVC wedge flowmeter 3/4 NPT, 1 to 15 GPM

Accessories

Model No.	Price	Description
PSU-93	\$40	Unregulated 24 Vdc power supply
TX4-100	35	4-conductor cable 30 m (100') spool
FW-0112	103	Reference Book: Engineering Fluid Mechanics

Comes complete with operator's manual.

For units with 4 to 20 mA output, in place of the 0 to 5 V output, add "-I" to the model number, no additional charge.

Ordering Examples: FW1210, PVC wedge flowmeter, 1/2 NPT, 1 to 10 GPM, DPF64, digital rate meter and TX4-100, multi conductor wire, \$519 + 289 + 35 = \$843.

FW1315, PVC wedge flowmeter, 3/4 NPT 1 to 15 GPM, and PSU-93 power supply, \$555 + 40 = \$595.

For additional information on DPF64 see page M-21.

omega.co.uk[®]

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

www.omega.co.uk



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

Deckenfronn, 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, Ethernet 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