

INSERTION PADDLEWHEEL FLOW SENSORS

FP6500 Series
Starts at
\$498



- ✓ Available in 316 SS or Brass
- ✓ Installs in a Wide Range of Pipe Sizes From 7.62 to 25 cm (3 to 48")
- ✓ Excellent Low-Flow Performance
- ✓ Special Fittings Not Required

Ruby bearings and a non-drag pick-off give these adjustable insertion flow sensors the widest flow range of any of the paddlewheel types. A Hall-effect device detects the passage of miniature magnets in the six rotor blades. The resulting square-wave signal can be sent hundreds of feet without a transmitter, over unshield cable. This signal can be connected directly to many PLCs and other controls without additional electronics.

A depth adjustment system allows two basic sizes to cover pipe sizes from 7.62 to 25 cm (3 to 48").

SPECIFICATIONS

Materials

Probe Body: Brass or Type 316 SS

Rotor: PVDF

Shaft: Tungsten Carbide

Bearings: Ruby ring, ruby end stone, set in PVDF bearing holder

Power: 5 to 24 Vdc, 1.5 mA

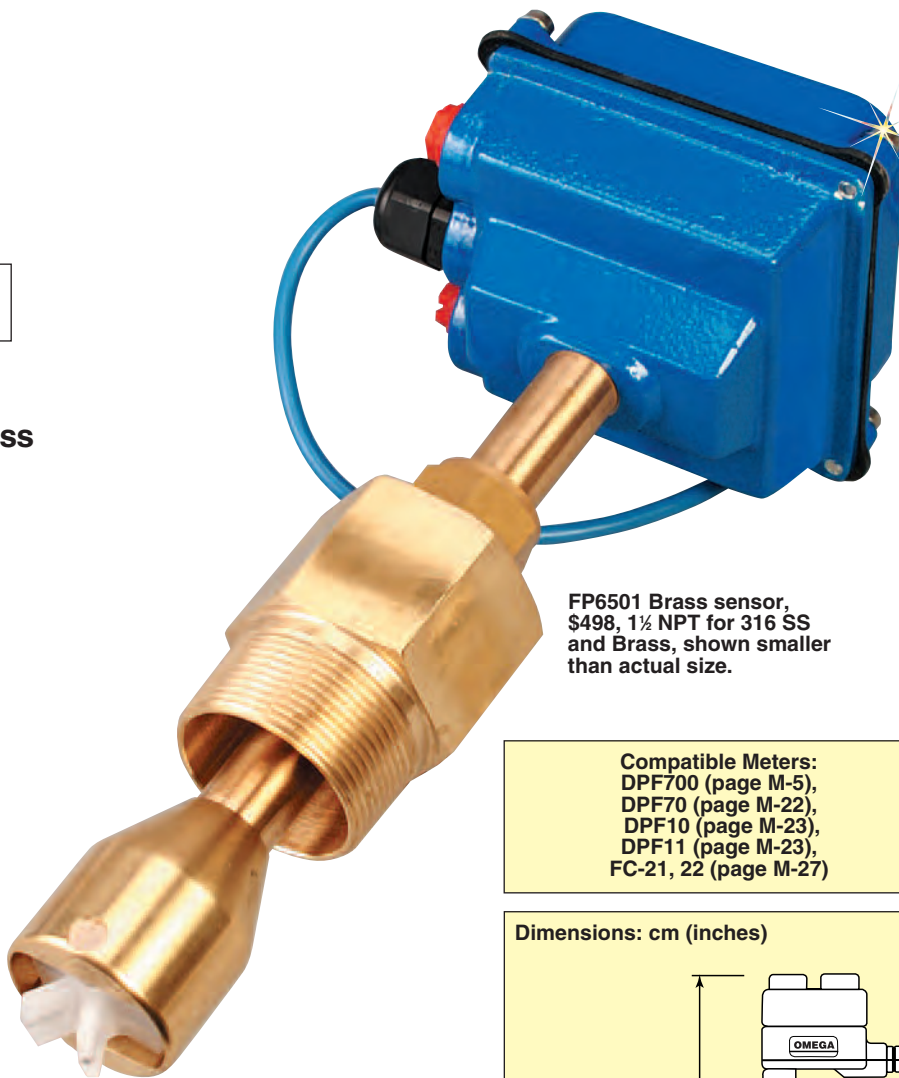
Signal: Square wave, 11 Hz/fps (approx.), current sinking output, 20 mA maximum, NPN (Hall Effect)

Cable: #22 AWG 3-conductor, 6 m (18') standard; 650 m (2000') max

Accuracy: ±1.5% of full range

Range: 0.3 to 30 fps

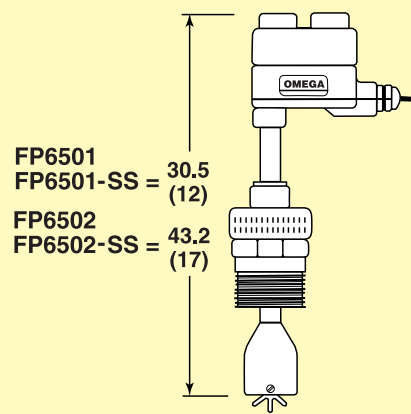
Maximum Working Pressure: 14 bar (200 psi) at 24°C (75°F)



FP6501 Brass sensor, \$498, 1½ NPT for 316 SS and Brass, shown smaller than actual size.

Compatible Meters:
DPF700 (page M-5),
DPF70 (page M-22),
DPF10 (page M-23),
DPF11 (page M-23),
FC-21, 22 (page M-27)

Dimensions: cm (inches)



Maximum Temperature:

93°C (200°F) at 0 psig

Shipping Weight:

FP6501: 1.8 kg (4 lb)

FP6502: 2.3 kg (5 lb)

Pipe Size Range:

FP6501: 7.62 to 25 cm (3 to 10")

FP6502: 25 to 122 cm (10 to 48")

Fitting Size:

FP6501: 1½ NPT

FP6502: 2 NPT

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Fitting Size	Description
FP6501	\$498	1½ NPT	Brass sensor, 7.62 to 25 cm (3 to 10")
FP6501-SS	625	1½ NPT	316 SS sensor, 7.62 to 25 cm (3 to 10")
FP6502	585	2 NPT	Brass sensor, 25 to 122 cm (10 to 48")
FP6502-SS	658	2 NPT	316 SS sensor, 25 to 122 cm (10 to 48")
FP-15827-K	125		Repair kit (bearing, assembly and rotor), PVDF

Comes complete with operator's manual.

Ordering Examples: FP6501, 1½ NPT brass sensor for 7.62 to 25 cm pipe, \$498.

FP6502-SS, 1½ NPT for 25 to 122 cm pipe, 316 SS sensor, \$658.

Recommended Reference Book: Flow Measurement Methods and Applications, FW-0118, \$155. See Section Y for Additional Books.





UNITED STATES

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

CANADA

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

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, 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, Wire

• 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

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 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, Strain Gages, 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