

HIGH ACCURACY, HIGH PRESSURE, LOW FLOWMETERS *Up to 6000 psig*

FTB500 Series



- ✓ 1% of Rate Accuracy
- ✓ 1000 psig, 6000 psig Optional
- ✓ For Flows Down to 0.02 GPM
- ✓ Linear Pulse and Analog Outputs

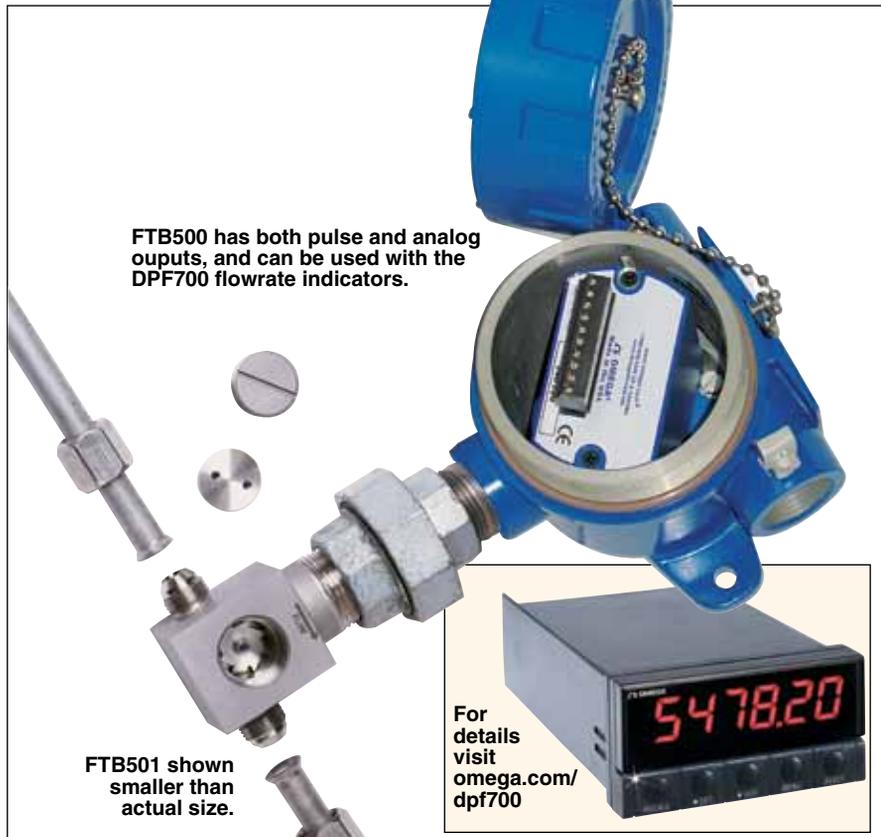
FTB500 series low flowmeters offer extremely accurate low flow measurement of liquids. They utilize a Pelton wheel-like rotor whose motion is converted by a pickup coil into a pulse output that is proportional to flow. Each flowmeter comes with an integral signal conditioner, powered by either 15 to 35 Vdc or 115 Vac (optional) to provide amplified frequency and analog outputs. The signal conditioner corrects for the inherent zero offset of the flowmeter pulse output. It is mounted in a NEMA 4 (IP66), explosion-resistant enclosure rated for class I, groups C & D, class II, groups E, F, and G.

SPECIFICATIONS

Accuracy: $\pm 1\%$ of rdg for pulse, $\pm 0.05\%$ FS for analog outputs
Analog Output Response Time: adjustable from 0.5 to 2 seconds
Viscosity: 0.8 to 25 cSt, unit calibrated to specific viscosity value
Repeatability: $\pm 0.25\%$ of rdg
Fluid Temperature Range: -268 to 232°C (-450 to 450°F)



Pelton-type rotor is well suited to high head, low flow applications.



FTB500 has both pulse and analog outputs, and can be used with the DPF700 flowrate indicators.

FTB501 shown smaller than actual size.

For details visit omega.com/dpf700

Operating Ambient Temperature: -20 to 80°C (-4 to 176°F)
Materials of Construction: 316 SS housing, 440C ball bearings, 17.4 PH rotor, and Rulon-J seals
Connections: 1/2" 37° flare per MS-33656-8; 1/2 MNPT adaptor kit opt.

Maximum Pressure Drop (at 1cSt): 10 psid
Maximum Pressure: 1000 psig std, 6000 psig optional
TTL Frequency Output: 0 to 125 Hz
Power: 15 to 35 Vdc std, 115 Vac optional
Analog Output: 4 to 20 mA into 375 Ω max std, 0 to 5 Vdc optional
Weight: 2.7 kg (6 lb)

MADE TO ORDER!

To Order

Model No.	Linear Flow Range (US GPM)
FTB501-(*CK)	0.02 to 0.15
FTB502-(*CK)	0.025 to 0.25
FTB503-(*CK)	0.05 to 0.5
FTB504-(*CK)	0.1 to 1.0
FTB505-(*CK)	0.2 to 2.0

Accessories

Model No.	Description
FTB-K3	1/2" MS flare to 1/2 MNPT adaptor kit with 10" upstream and 5" downstream straight SS tubing, weight: 454 g (1lb)

Comes complete with operator's manual and 10-point NIST calibration certificate for 1CK of water. (*CK) Specify liquid viscosity (in cSt), from 0.8 to 25 cSt, for viscosities other than 1, for additional cost.

To order with 0 to 5 Vdc analog output, add suffix "-5VDC" to model number, no additional cost.

To order with 115 Vac power, add suffix "-115VAC" to model number, for additional cost.

Standard maximum pressure is 1000 psig. To order with 6000 psig maximum pressure, add suffix "-6KP" to model number, for additional cost.

Ordering Examples: FTB-501-(1CK) flowmeter for 1 centistoke viscosity liquid, 0.02 to 0.15 GPM range.

FTB-503-(4CK)-115VAC, flowmeter for 4 centistoke viscosity liquid, 0.05 to 0.5 range, and 115 Vac power.

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• 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

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• 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