

TFE TURBINE METERS

FTB-1200



- ✓ ±1% of Reading Accuracy
- ✓ All Wetted Parts, Including Flowmeter Liner, are TFE Recommended for Corrosive Service and Ultra-Pure Water Flow Applications
- ✓ Suitable for Clean Liquid Service
- ✓ Supplied with 316 SS Flowmeter Housing and 150# ANSI Flanges
- ✓ Compatible with Signal Conditioners



TFE flowmeter shown with flanged housing

FLSC-18B, FLSC-28, FLSC-34, FLSC-35B, FLSC-51 and FLSC-51B Compatible Signal Conditioners.

All wetted parts of OMEGA's FTB-1200 Series turbine meters are TFE, including liner in the flowmeter housing. Magnets are embedded in the TFE blades of the rotor assembly. Within the turbine flowmeter, the flowing medium engages a vaned rotor, causing it to rotate at an angular velocity proportional to the flow rate. The pickup coil senses the spinning motion of the rotor through the housing and converts it into a pulsing electrical signal. Totalling the pulsing electrical signal directly yields to the total flow, while the frequency is linearly related to the flow rate. Sleeve-type bearing, rotor, cones, and flow straightening sections are made of

machined TFE. 150# ANSI flanges are available in sizes from ¼ to 3". The TFE Series offers a linearity of ±1% of reading and a repeatability of ±0.1% of reading.

SPECIFICATIONS

Accuracy: ±1% of reading over linear flow range

Repeatability: ±0.1% of reading over repeatable flow range

Temperature and Pressure Limitations: Flanged meters are limited by the pressure rating of the flange, 150 psi @ 21°C (70°F)

Pressure Drop: Less than 4 psi at maximum linear flow rate

Output: 10 mVrms or greater into a 10 kΩ load at a minimum flow rate

Wetted Parts: TFE bearings, TFE sleeve

Construction: 316 SS housing
Maximum Particle Size: 0.14 mm (0.0055")

Minimum Straight Pipe Length Requirements: 10 pipe diameters upstream, 5 pipe diameters downstream

To Order

Model No.	Meter Size (inch)	Linear		Nominal K Factor (±10%) (Pulses/Gal)	Length mm (inch)	Weight kg (lb)
		GPM	LPM			
FTB-1201	¼	0.35 to 3.5	1.3 to 13.2	1200	62 (2.45)	2 (4.5)
FTB-1202	⅜	0.75 to 7.5	2.8 to 28.4	1000	62 (2.45)	2 (4.5)
FTB-1203	½	1.25 to 9.5	4.7 to 36	800	62 (2.45)	2 (4.5)
FTB-1204	⅝	1.75 to 16	6.6 to 60.6	500	83 (3.25)	2.7 (6)
FTB-1205	¾	2.5 to 20	9.5 to 76	375	83 (3.25)	2.7 (6)
FTB-1206	1	4 to 45	15 to 170	124	113 (4.43)	2.7 (6)
FTB-1207*	1¼	6 to 70	23 to 265	60	152 (6)	3.6 (8)
FTB-1208*	1½	8 to 100	30.3 to 378	40	152 (6)	3.6 (8)
FTB-1209*	2	15 to 170	56.8 to 643.5	17	152 (6)	5.9 (13)
FTB-1210*	2½	25 to 300	95 to 1135	6	178 (7)	10 (22)
FTB-1211*	3	40 to 485	151 to 1836	3.8	254 (10)	12 (27)

* Units are only compatible with integral mount signal conditioners FLSC-51 and FLSC-51B.

Comes with complete operator's manual and NIST 10-point calibration certificate for 1 CK for water.

Ordering Examples: FTB-1211, 3" TFE turbine flowmeter, FTB-1201, ¼" TFE turbine meter.

To order with signal conditioner, specify **SYS/FTB-12**/signal conditioner number**. Example: **SYS/FTB-1201/FLSC-28**, ¼" TFE turbine flowmeter plus 0 to 5 Vdc scaled frequency pulse output signal conditioner.