

ECONOMICAL LIQUID TURBINE FLOWMETERS

FTB-1400 Series
Starts at
\$337



For Complete Specifications
Visit omega.com/ftb1400

- ✓ Cost-Effective Solution for Turbine Flowmeter Applications
- ✓ Rugged 316 Stainless Steel Construction Offers Long Service Life in Severe Operating Environments
- ✓ Accurate and Repeatable Flow Measurement
- ✓ Installation in Pipe Sizes from ½ to 2"
- ✓ NIST Calibration

The OMEGA® FTB-1400 turbine flowmeter is designed to meet the demands of the most rigorous flow measurement applications. Originally developed for the secondary oil recovery market, the FTB-1400 is an ideal meter for liquid flow measurement on or off the oilfield. The meter features a 316 Stainless Steel housing and rotor support, CD4MCU Stainless Steel rotor, and abrasion-resistant tungsten carbide rotor shaft and journal bearings. These materials help the meter to maintain accuracy and mechanical integrity when measuring the corrosive and abrasive fluids found in many industries.

Fluid entering the meter first passes through an inlet flow straightener that reduces its turbulent flow pattern. Fluid then passes through the turbine, causing the turbine to rotate at a speed proportional to fluid velocity. As each turbine blade passes through the magnetic field generated by the meter's magnetic pick-up, an AC voltage pulse is generated. These pulses provide an output frequency that is proportional to volumetric flow.



FTB-1425, \$337, shown smaller than actual size.

SPECIFICATIONS

- Accuracy:** ±1% of reading
- Repeatability:** ± 0.1%
- Magnetic Pickup:** 30 mV/P-P
- Materials of Construction**
 - Body:** 316 Stainless Steel
 - Rotor:** CD4MCU Stainless Steel
 - Rotor Support:** 316 Stainless Steel
 - Rotor Shaft:** Tungsten carbide
- Turndown Ratio:** 10:1
- Calibration:** Water (NIST traceable calibration)
- Pressure Rating:** 5000 psi (maximum)
- Turbine Temperature:** -101 to 177°C (-150 to 350°F); -101 to 232°C (-150 to 450°F) (with “-HT” option)
- End Connections:** NPT, BSPP optional

■ MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)							
Model No.	Price	Connection MNPT	Range			K-Factor Pul/Gal	Lay Length mm (in)
			LPM	GPM	Barrels/Day		
FTB-1411	\$463	½	2.3 to 11.3	0.6 to 3	20 to 100	18,000	76 (3)
FTB-1412	481	½	2.8 to 28	0.75 to 7.5	25 to 250	13,000	76 (3)
FTB-1413	437	½	7.6 to 56.7	2 to 15	68 to 515	3300	76 (3)
FTB-1421	458	1	2.3 to 11.3	0.6 to 3	20 to 100	18,000	76 (3)
FTB-1422	437	1	2.8 to 28	0.75 to 7.5	25 to 250	13,000	76 (3)
FTB-1423	449	1	7.6 to 56.7	2 to 15	68 to 515	3300	76 (3)
FTB-1424	444	1	11.3 to 113	3 to 30	100 to 1000	3100	101 (4)
FTB-1425	337	1	18.9 to 189	5 to 50	170 to 1700	870	101 (4)
FTB-1431	495	1½	56.8 to 681	15 to 180	515 to 6000	330	152 (6)
FTB-1441	785	2	56.8 to 681	15 to 180	515 to 6000	330	152 (6)

Comes complete with NIST calibration certificate for water, and operator's manual.

For units with high temp magnetic pulse output, add suffix “-HT” to model number, and \$142 to price (not available on “-AMP” models).

For units with amplified pulse output, add suffix “-AMP” to model number, and \$181 to price (not available on “-HT” models).

For units with BSPP threads, add suffix “-BSP” to model number and \$10 to price (not available on 2" models).

Ordering Examples: FTB-1411, ½ NPT stainless turbine, and DPF701, digital panel meter for rate of total display, \$463 + 260 = \$723.

FTB-1424-AMP, 1 NPT stainless turbine, and DPF701, digital panel meter for rate of total display, \$444 + 181 + 260 = \$885.

See page M-5 for information on model DPF701.

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