

FLOW MONITOR DIGITAL DISPLAYS

For FTB-1400 Series Turbines

FTB-1400-D



- ✓ Displays Rate and/or Total
- ✓ Large 8 Digit by $\frac{3}{4}$ " Display for Easy Viewing
- ✓ One "D" 1.5V Alkaline Battery or Loop Power
- ✓ User Friendly Front Panel Programming
- ✓ NEMA 4X (IP66) Enclosure
- ✓ Meter, Remote, or Swivel Mount Configurations
- ✓ Loop Powered Model Also Available



The FTB-1400-D display is a technologically advanced flow monitor designed to be comprehensive, user-friendly, flexible and cost efficient. This microprocessor-based display can easily be configured in the field.

The user may choose between the standard model which is programmed in seven simple steps and the advanced model which provides additional programming options.

The FTB-1400-D display is offered in three mounting configurations: meter, remote and swivel display allowing for flexible installation. The display, when paired with a rugged, reliable OMEGA® turbine flowmeter, will provide dependable and accurate flow information for many years to come. The display may also be used with almost any flow sensor that outputs a low-amplitude AC signal.

The FTB-1400-D flow monitor accepts a low-level frequency input, such as the input from a OMEGA turbine meter, to calculate flow rate and total. These calculations are then displayed in user selected unit of measurement. They can be easily configured in the field.

The FTB-1400-D is battery-powered and utilizes one "D" size, 1.5V alkaline battery (included) that provides up to 3½ years of service [or loop powered (-LP)].

Loop-powered models also available. The displays are equipped with a large 8 digit by $\frac{3}{4}$ " numerical LCD making extended range viewing practical. The second 8 character by $\frac{3}{8}$ " alphanumeric display provides for selectable units viewing in run mode and prompts variables in programming mode. Additionally, the user can choose between displaying rate, total or alternating between both rate and total.

SPECIFICATIONS

LCD Display: Rate and total, fixed or toggle modes of operation 8 digit, 18 mm (0.7") numeric (top line) 8 character, 9 mm (0.35") alphanumeric (bottom line); resettable

Power (Battery): 1 "D" size 1.5 Vdc alkaline battery (included) less than 1 milliwatt (~3.5 years on 1 "D" battery) or (-LP) loop powered 25 mA maximum

Loop-Power: 25 mA maximum (-LP)

Pulse Output Signal: One pulse for each increment of the least significant digit of totalizer. Pulse type opto-isolated open collector transistor

Maximum Voltage: 30 Vdc

Pulse Width (ON State): 20 ms/max pulse rate 20 Hz

Current (ON State): 0.9V drop at 5.0 mA or 0.7V drop at 0.1 mA

Inputs: Magnetic pickup

Frequency Range: 1 to 3500 Hz

Trigger Sensitivity: 30 mV p-p over voltage protected 30 Vdc

Frequency Measurement Accuracy: ±0.1%

Operating Temperature: -30 to 70°C (-22 to 158°F)

Humidity: 0 to 90% non-condensing

Enclosure Rating: NEMA 4X (IP66)

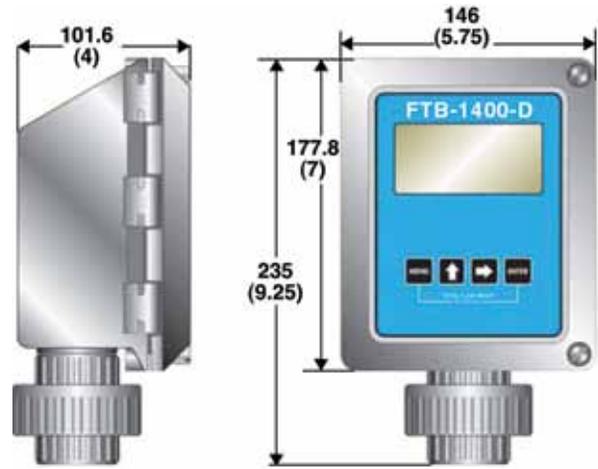
Units of Measure (Rate/Total): GPM/gallons, LPM/liters, M3PD/cubic meters, BPD/barrels, M3PH/cubic meters
Additional Specifications (-A) Model

Thirteen Selectable Units of Measure: Gallons, oil barrels, liters, cubic meters, Mgal, MCF, MMCF, cubic ft, M liters, acre ft, liquid barrels, lbs, or kgs

Three Time Units for Rate Measurement: Day, hour, minute, or second ten point linearization programming

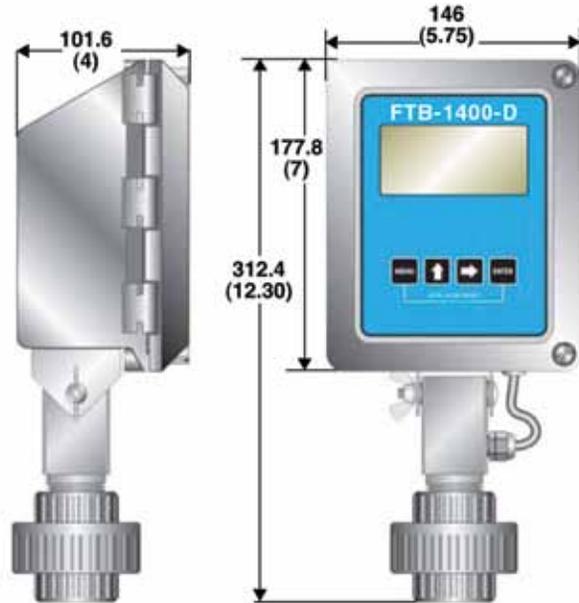
Meter Mount: Monitor is assembled to the flowmeter, creating a compact flow measurement system

Meter Mount (Only for use with FTB-1400 series turbines)

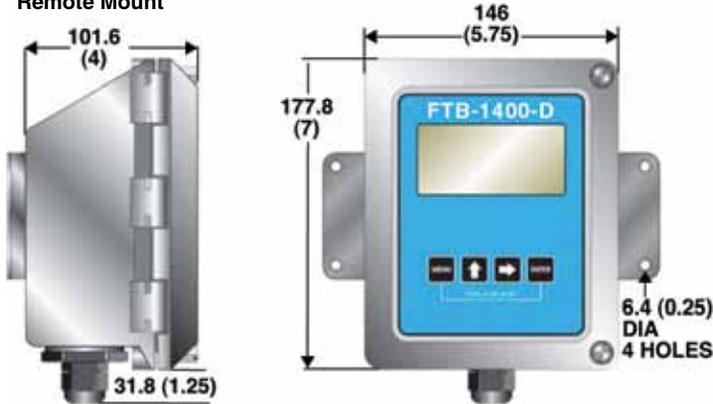


Dimensions: mm (inch)

Swivel Mount (Only for use with FTB-1400 series turbines)



Remote Mount



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To Order

Loop Powered Model No.	Model No.	Description
FTB-1400-MD-LP	FTB-1400-MD	Meter mounted display, standard programming
FTB-1400-SD-LP	FTB-1400-SD	Swivel mounted display, standard programming
FTB-1400-RD-LP	FTB-1400-RD	Remote mounted display, standard programming
FTB-1400-MD-A-LP	FTB-1400-MD-A	Meter mounted display with advanced programming
FTB-1400-SD-A-LP	FTB-1400-SD-A	Swivel mounted display with advanced programming
FTB-1400-RD-A-LP	FTB-1400-RD-A	Remote mounted display with advanced programming
-	FTB-1400-CABLE	3 m (10') cable for remote mount display with straight connector
-	FTB-1400-90CABLE	3 m (10') cable for remote mount display with 90° connector

Comes complete with "D" 1.5V alkaline battery and operator's manual.

Ordering Examples: FTB-1413, ½ NPT stainless turbine and FTB-1400-MD, battery powered display for meter mount.

FTB-1424, 1 NPT stainless turbine, FTB-1400-RD, battery powered remote display, and FTB-1400-CABLE, 3 m (10') cable assembly with 2-pin connector.