

MICRO-FLOW METER

FTB300 Series



- ✓ NEMA 4X (IP56) Enclosure
- ✓ 6-Digit LCD
- ✓ Displays both Rate and Total
- ✓ Non-Volatile Programming and Total
- ✓ For Clean Liquids

The FTB300 Series of digital paddle wheels are an economical choice for low flow rate applications. They use Infra-red light beam technology. Available connections include 1/8 FNPT, 1/4 FNPT and 3/8" OD tube fittings. Six available flow ranges as low as 30 mL/min to 7000 mL/min. Models without a display have a 5 Vdc current sinking pulse output. Units with displays have a 6-digit LCD, with up to 4 decimal positions that display both flow rate and total. All units include an open collector alarm output.

User selectable scale factors include: flow units, (gallons, liters, ounces, and milliliters); time units (minutes, hours, days). Users can also program custom units. Programming values and total are stored in the non-volatile memory. The total reset function can also be disabled. Standard units have a clear PVC viewing lens; a PVDF chemical resistant lens is available as an option. The enclosure is weather resistant Valox® PBT and is rated NEMA 4X (IP56).

SPECIFICATIONS

Maximum Working Pressure:

PVC Lens: 9 bar (130 psig) at 21°C (70°F)

PVDF Lens ("PVDF" Option):

150 psig (10 bar) @ 21°C (70°F)

Maximum Fluid Temperature:

PVC Lens, FNPT Connectors: 54°C (130°F) at 0 psi

PVDF Lens ("PVDF" Option), Tubing Connectors:

93°C (200°F) at 0 psi



FTB321D shown smaller than actual size.

Accuracy: ±6% FS

Power: 120 Vac (transformer prewired)

Sensor Type: Infrared light beam

Alarm Output: Open collector 30 Vdc maximum

Enclosure: NEMA 4X (IP56)

Shipping Wt: 0.45 kg (1 lb)

Materials of Construction

Body, Paddle, Axle Material: PVDF

Connector Material

FNPT Connections: PVC

Tubing Connectors: PVDF

Viewing Lens Material Option

Clear See Through: PVC

Opaque Chemical Resistant: PVDF (optional)

O-Ring Seals: FKM (EPDM optional)

Compression Seal to Pump: PVC

Sensor Only

Models: 5 Vdc digital square wave (2-wire)

Output: 3-wire shielded cable, 1.8 m (6')

To Order

Indicator Model No. (with display)			Sensor Model No. (no display)			Range	
1/8 FNPT	1/4 FNPT	3/8" OD Tube	1/8 FNPT	1/4 FNPT	3/8" OD Tube	L/min	GPH
FTB311D	FTB321D	FTB331D	FTB311	FTB321	FTB331	0.03 to 0.3	0.48 to 4.7
FTB312D	FTB322D	FTB332D	FTB312	FTB322	FTB332	0.1 to 1	1.6 to 15.8
FTB313D	FTB323D	FTB333D	FTB313	FTB323	FTB333	0.2 to 2	3.2 to 31.7
FTB314D	FTB324D	FTB334D	FTB314	FTB324	FTB334	0.3 to 3	4.8 to 48
FTB315D	FTB325D	FTB335D	FTB315	FTB325	FTB335	0.5 to 5	7.9 to 79
FTB316D	FTB326D	FTB336D	FTB316	FTB326	FTB336	0.7 to 7	11.1 to 111

Comes complete with inlet strainer and operator's manual.

LCD displays are not recommended for direct sunlight.

For EPDM O-rings add suffix "-EPDM" to model number, no additional charge.

For PVDF lens, add suffix "-PVDF" to model number, no additional charge.

For European style power supply (220V50Hz) add suffix, "-EU" to model number, for additional cost.

For US 230V 60 Hz power supply, add suffix "-230V" to model number, for additional cost.

Ordering Examples: FTB323D, micro-flow meter with display, 0.2 to 2 L/min range, 1/4 FNPT connections.

FTB331D, micro-flow meter with display, 0.03 to 0.3 L/min range, 3/8" OD tube connections.