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 \( \frac{1}{8} \) FNPT, \( \frac{1}{4} \) FNPT and \( \frac{3}{8} \) " 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

**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
- 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’)

**Ordering Examples:**
- FTB331D, micro-flow meter with display, 0.03 to 0.3 L/min range, \( \frac{1}{8} \) FNPT connections.
- FTB321D, micro-flow meter with display, 0.03 to 0.3 L/min range, \( \frac{3}{8} \) " OD tube connections.