

# LOW FLOW PLASTIC TURBINE



## FTB-420 Series



- ✓ Low Flow Rates 0.1 to 2.5 LPM
- ✓ High Accuracy  $\pm 3\%$  of Reading
- ✓ Lightweight Turbine Ensures Fast Startup
- ✓ Mounts in Any Orientation

TRODEKS's FTB-420 Series features proven turbine technology in a small package for low flow applications. The turbine technology provides a highly repeatable sensor ideally suited for measurement of either volume dispensing and/or flow rate applications. The small turbine reacts quickly to on/off dispensing applications. Each sensor is 100% tested, ensuring long service life.



FTB-421 shown actual size.

### SPECIFICATIONS

#### Wetted Materials:

**Body:** Nylon 12 (FTB-421)

**Turbine:** Nylon 12 (FTB-421)

**Bearings:** PTFE/15% graphite

**Operating Pressure:** 24 bar (350 psi)

**Burst Pressure:** 97 bar (1400 psi)

**Flow Range:** 0.026 to 0.65 GPM (0.1 to 2.5 LPM)

**Pulses:** 83,200 per gallon (22,000 per liter)

**Frequency Output:** 36.6 to 917 Hz

**Operating Temperature:** -20 to 100°C (-4 to 212°F)

**Viscosity:** 32 to 70 SSU (0.8 to 16 centistokes)

**Filter:** <50 Microns

**Input Power:** 5 to 24 Vdc

**Output (Hz):** NPN sinking open collector @ 20 mA maximum leakage

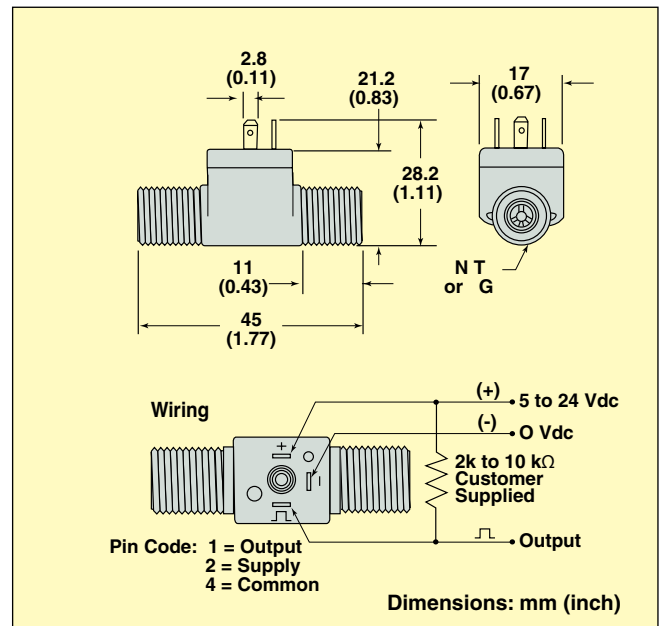
**Current:** 10 $\mu$ A (3 to 30K pull up resistor required)

**Accuracy:**  $\pm 3\%$  of reading

**Repeatability:** 0.5% of full scale

**Electrical Connection:** 9.4 mm spacing 3-pole DIN connector (1" high)

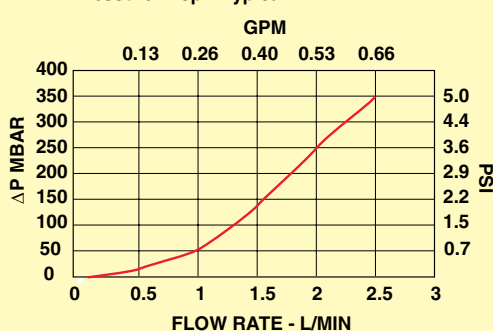
**Inlet/Outlet Ports:** 1/4 NPT or 1/4 G male



#### Mating DIN Connector

Function	DIN Termination
V+	1
-	⊕
Output	2

#### Pressure Drop—Typical



### To Order

Model No.	Description
FTB-421	Low flow nylon turbine 1/4 NPT
FTB-421G	Low flow nylon turbine 1/4 G thread

Comes complete with DIN connector and operator's manual.  
**Ordering Example:** FTB-421, low flow nylon turbine 1/4 NPT.