

FT-210 Series – TurboFlow® Low Flow Turbine Sensor

- ▶ Low Flow Rates .1 to 2.5 LPM and High Accuracy $\pm 3\%$ of Reading
- ▶ Lightweight Turbine Ensures Fast Startup
- ▶ Mounts In Any Orientation

Gems FT-210 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 years of service life.

Specifications

Wetted Materials	
Body	Nylon 12 (Grilamid TR55) or Grivory
Turbine	Nylon 12 Composite
Bearings	PTFE/15% Graphite
Operating Pressure	350 PSI (24 bar)
Burst Pressure	1400 PSI (97 bar)
Flow Range	.026- 65 gallons/minute 0.1-2.5 liters/minute 3.4-84.5 ounces/minute
Pulses	83,200 per gallon 22,000 per liter 650 per ounce
Frequency Output	36.6-917 Hz
Operating Temperature	-4°F to 212°F (-20°C to 100°C)
Viscosity	32 to 70 SSU (.8 to 16 Centistokes)
Filter	<50 Microns
Input Power	5 to 24 VDC
Output (Hz)	NPN Sinking Open Collector @ 20mA Maximum Leakage Current 10 μ A (3K-30K Pull up resistor required)
Accuracy	$\pm 3\%$ of Reading
Repeatability	0.5% of Full Scale
Electrical Connection	9.4mm Spacing 3-pole DIN Connector (1" high)
Inlet/Outlet Ports	1/4" NPT (1/4" G Male also available)

How To Order

Specify a Part Number for the Port Connection AND a Part Number for the DIN Electrical Connection. Two Part Numbers are required for a complete part assembly.

FT-210 Sensor

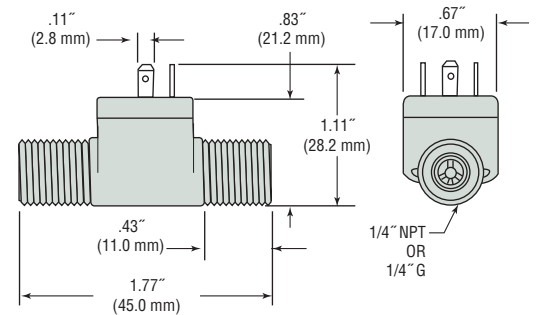
Body Material	Port Size	Part Number
Nylon 12	1/4" NPT	212465
	1/4" G	212460
Grivory®	1/4" NPT	223910
	1/4" G	223190

Electrical Connection

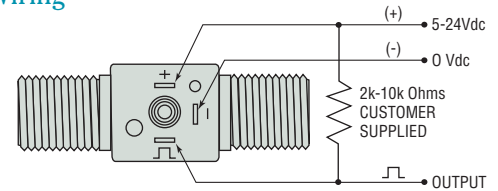
Description	Part Number
1 meter DIN PVC Cable Assembly with 10K pull-up resistor	218572
Mating DIN Connector	212404



Dimensions



Wiring



Pin Code: 1 = Output
2 = Supply
4 = Common

For Mating DIN Connector – P/N 212404

Function	DIN Termination
V+	1
-	⊕
Output	2

Pressure Drop—Typical

