

# FT-210 Series – TurboFlow<sup>®</sup> Low Flow Turbine Sensor

- Low Flow Rates .1 to 2.5 LPM and High Accuracy ±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)	
Turbine	Nylon 12 Composite	
Bearings	PTFE/15% Graphite	
Operating Pressure	350 PSI (24 bar)	
Burst Pressure	1400 PSI (97 bar)	
Flow Range	.02665 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 10µA (3K-30K Pull up resistor required)	
Accuracy	±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

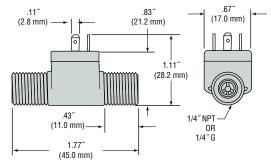
### 🗲 – Stock Items.

#### **Electrical Connection**

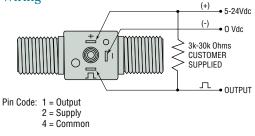
Description	Part Number
1 meter DIN PVC Cable Assembly with 10K pull-up resistor	218572
Mating DIN Connector	212404



### Dimensions







#### For Mating DIN Connector - P/N 212404

Function	DIN Termination
V+	1
_	Ē
Output	2

## Pressure Drop—Typical

