

## 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

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

### How To Order

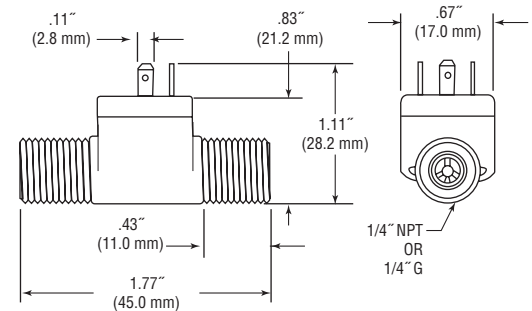
Specify a Part Number for the Port Connection AND a Part Number for the DIN Electrical Connection. Two Part Numbers are required for a complete part assembly.

| Part Number 1<br>Port Connection (Thread Style) |             | Part Number 2<br>DIN Connector Style                 |             |
|-------------------------------------------------|-------------|------------------------------------------------------|-------------|
| Description                                     | Part Number | Description                                          | Part Number |
| 1/4" NPT                                        | 212465      | 1 meter DIN Cable Assembly with 10K pull-up resistor | 218572 ⚡    |
| 1/4" G                                          | 212460      | Mating DIN Connector                                 | 212404 ⚡    |

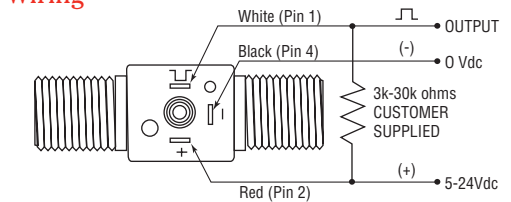
⚡ – Stock Items.



### Dimensions

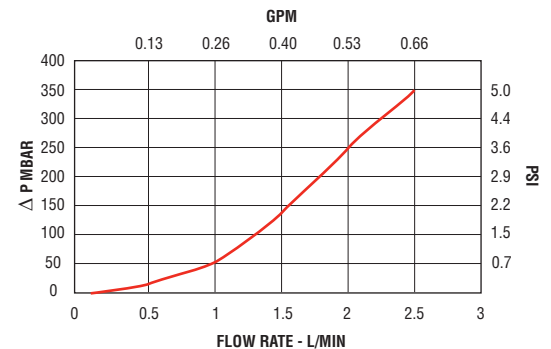


### Wiring



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

### Pressure Drop—Typical



See Flow Sensor Display and Power Accessories in the Master Catalog.

Rate Meters and Totalizers complete your flow monitoring system.