

# FT-110 Series – TurboFlow® Economical Flow-Rate Sensors

FLOW SENSORS

- ▶ Low Cost Plus High Accuracy  $\pm 3\%$  of Reading
- ▶ Measures Low Liquid Flow Rates of .1 to 8 GPM
- ▶ FDA Approved Materials
- ▶ Lightweight Plastic Design Enables Mounting in any Position

Gems hall effect turbine flow rate sensor is ideal for OEM applications involving low flow liquid monitoring. The low cost coupled with 1/2% repeatability makes it an ideal candidate for replacing dispensing timer systems. Unlike existing timing systems, turbine technology is not influenced by changes in system pressure caused by aging filters. The sensor's standard power and output specifications make it easy to retrofit to existing controllers.

## Specifications

<b>Wetted Materials Body</b>	Nylon 12
<b>Turbine</b>	Nylon 12 Composite
<b>Bearings</b>	PTFE/15% Graphite
<b>Operating Pressure</b>	200 PSIG
<b>Burst Pressure</b>	2500 PSIG
<b>Operating Temperature</b>	-4°F to 212°F (-20°C to 100°C)
<b>Viscosity</b>	32 to 81 SSU (.8 to 16 Centistokes)
<b>Filter</b>	<50 Microns
<b>Input Power</b>	5 to 24 VDC @ 8mA
<b>Output (Hz)</b>	NPN Sinking Open Collector @ 50mA Maximum (1 to 2.2K Ohm Pull-Up Resistor Required)
<b>Accuracy</b>	$\pm 3\%$ of Reading
<b>Repeatability</b>	0.5% of Full Scale
<b>Electrical Connection</b>	Spade Terminals .110"/.248" x .031" (2.8/6.3 x .8 mm) or 3ft.cable
<b>Inlet/Outlet Ports</b>	3/8" NPT Male (3/8" G Male also available)

## How To Order – Standard Models

Specify Part Number based on desired body material and port size.

For 1-meter (3-ft.) cable units, add "-C" to part number

Flow Range		Pulses per		Frequency Output	Part Number
GPM	Liters/m	Gallon	Liter		
.13-1.3	0.5-5	26100	6900	58-575 Hz	<b>173931</b> ⚡
.26-2.6	1-10	12500	3300	53-530 Hz	<b>173932</b> ⚡
.26-4.0	1-15	17400	4600	76-1150 Hz	<b>173933</b> ⚡
.26-4.0	1-15	8300	2200	37-550 Hz	<b>173934</b> ⚡
.53-7.9	2-30	3800	1000	33-500 Hz	<b>173935</b> ⚡

⚡ - Stock Items.

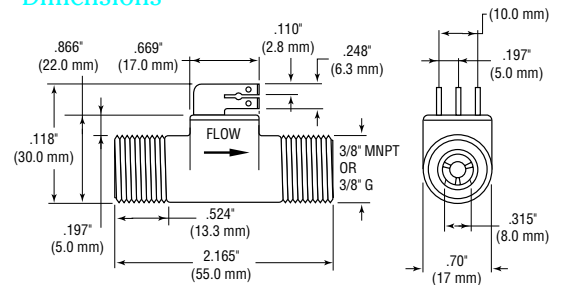
## FT-110 Accessories

Consult factory for special customized OEM versions.

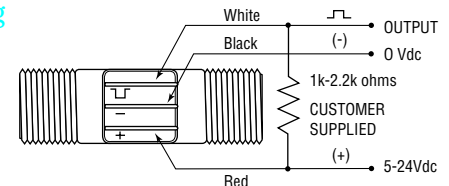
Description	Part Number
Mating connector w/3 feet, 3 conductor, PVC pigtail cable	<b>173941</b> ⚡
Mating connector w/10 feet, 3 conductor, PVC pigtail cable	<b>173942</b> ⚡



## Dimensions

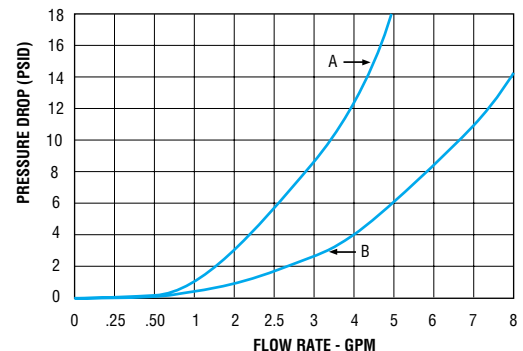


## Wiring



Cable Wire Code: Red = 5 to 24 VDC  
Black = Ground  
Brown = Signal Output

## Pressure Drop—Typical



Tests conducted with water flow at 68°F (20°C).

A) Part #173931  
173932  
173933  
B) Part #173934 173935

See Display and Power Accessories on Page J-9

Rate Meters and Totalizers complete your flow monitoring system.