

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

- ▶ Low Cost Plus High Accuracy ±3% of Reading
- ▶ Measures Low Liquid Flow Rates of .1 to 8 GPM
- ▶ 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</b>	
<b>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 @ 20mA Maximum Leakage Current 10µA (Pull-Up Resistor Required)
<b>Accuracy</b>	±3% of Reading
<b>Repeatability</b>	0.5% of Full Scale
<b>Electrical Connection</b>	Spade Terminals .110" x .248" x .031" (2.8/6.3 x .8 mm) or 3 ft. 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 flow range.

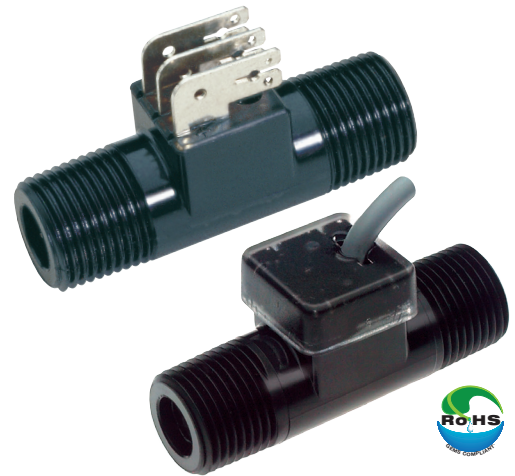
Flow Range		Pulses per		Frequency Output	3/8" NPT Part Number	
GPM	Liters/m	Gallon	Liter		Spade	Cable
.13-1.3	.5-5.0	26200	6900	58-575 Hz	173931 ⚡	173931-C
.13-2.0	.5-7.5	17400	4600	38-575 Hz	173933 ⚡	173933-C
.26-2.7	1-10	12500	3300	55-550 Hz	173932 ⚡	173932-C
.26-4.0	1-15	8300	2200	37-550 Hz	173934 ⚡	173934-C
.26-6.6	1-25	3800	1000	16.7-416 Hz	173935 ⚡	173935-C
.53-9.2	2-35	2650	700	23-408 Hz	234265 ⚡	234265-C

⚡ – Stock Items.

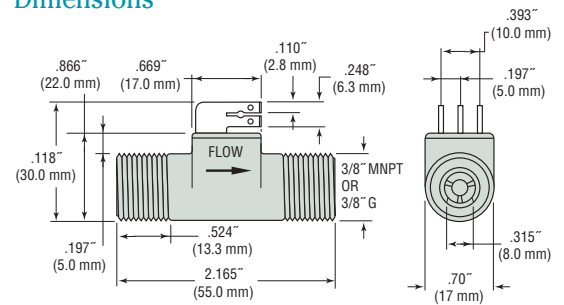
## FT-110 Accessories

Consult factory for special customized OEM versions.

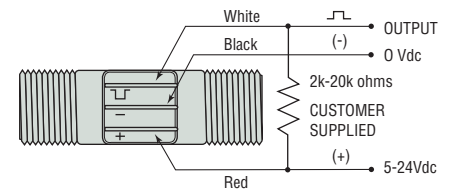
Description	Part Number
Mating connector w/3 feet, 3 conductor, PVC pigtail cable	173941 ⚡
Mating connector w/10 feet, 3 conductor, PVC pigtail cable	173942 ⚡



## Dimensions

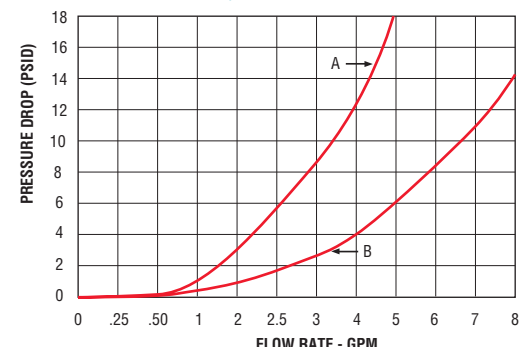


## Wiring



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

## Pressure Drop—Typical



A) Part #173931  
173932  
173933

B) Part #173934  
173935