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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

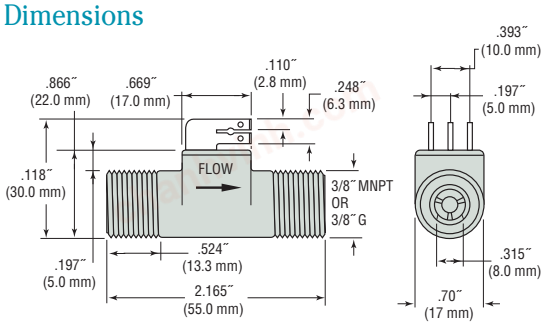
Gems Hall Effect turbine flow rate sensor is ideal for OEM applications involving low flow liquid monitoring. The low cost coupled with 1/2% repeatability makes it an ideal candidate for replacing dispensing timer systems. Unlike existing timing systems, turbine technology is not influenced by changes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



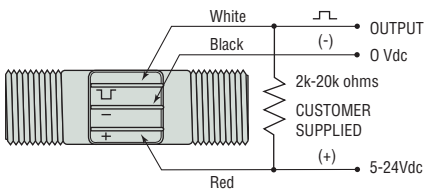
Specifications

Wetted Materials	
Body	Nylon 12
Turbine	Nylon 12 Composite
Bearings	PTFE/15% Graphite
Operating Pressure	200 PSIG
Burst Pressure	2500 PSIG
Operating Temperature	-4°F to 212°F (-20°C to 100°C)
Viscosity	32 to 81 SSU (.8 to 16 Centistokes)
Filter	<50 Microns
Input Power	5 to 24 VDC @ 8mA
Output (Hz)	NPN Sinking Open Collector @ 20mA Maximum Leakage Current 10µA (Pull-Up Resistor Required)
Accuracy	±3% of Reading
Repeatability	0.5% of Full Scale
Electrical Connection	Spade Terminals .110″/.248″ x .031″ (2.8/6.3 x .8 mm) or 3 ft. cable
Inlet/Outlet Ports	3/8″ NPT Male (3/8″ G Male also available)

Dimensions

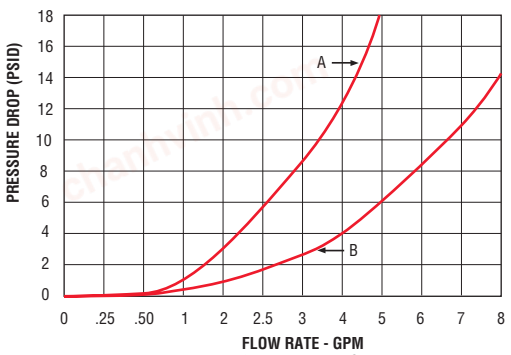


Wiring



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

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** ⚡