TURBOFLOW

FT-110M Series – TurboFlow[®] Economical Flow-Rate Sensors

- Low Cost Plus High Accuracy ±3% of Reading
- Measures Low Liquid Flow Rates of 0.53 to 6.6 GPM (2 to 25 LPM)
- Brass Design For Robust Applications

Gems Hall Effect turbine flow rate sensor is ideal for OEM applications involving low flow liquid monitoring. This brass-bodied version of our FT-110 series provides additional pressure capability over the engineered plastic models—up to 350 psig (24 bar). 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	Brass	
Turbine	Nylon 12 Composite	
Bearings	PTFE/15% Graphite	
Housing	PA12 (Trogamid®)	
Operating Pressure	350 PSIG (24 bar)	
Burst Pressure	2500 PSIG (172 bar)	
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	DIN 9.4mm Spacing* 24 AWG 3 ft. Cable	
Inlet/Outlet Ports	3/8″ NPT Male (3/8″ G Male also available)	

* Mating DIN ordered separately.

How To Order – Standard Models

Specify Part Number based on flow range.

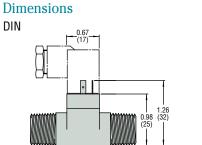
Flow	Flow Range		Pulses per		3/8″ NPT P	art Number
GPM	Liters/m	Gallon	Liter	Output	Cable	DIN
.53-2.1	2-8	15900	4200	140-560 Hz	245148-C	245148-D
.79-6.6	3-25	3800	1000	50-417 Hz	245149-C	245149-D

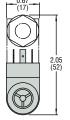
FT-110M Accessories

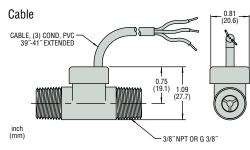
Description	Part Number
1 Meter DIN PVC Cable Assembly with 10K Pull-Up Resistor	218572
Mating DIN Connector	212404



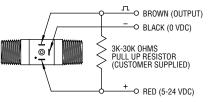




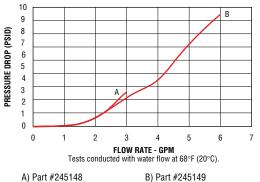




Wiring



Pressure Drop—Typical





FT-110 Series – TurboFlow[®] Economical Flow-Rate Sensors

- Low Cost Plus High Accuracy ±3% of Reading
- Measures Low Liquid Flow Rates of 0.13 to 9.2 GPM (0.5 to 35 LPM)
- Lightweight Plastic Design Enables Mounting in any Position
- O-ring Design for Manifold Mounting

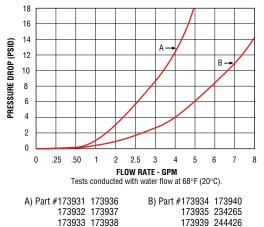
Gems Hall Effect turbine flow rate sensor is ideal for OEM applications involving low flow liquid monitoring. The low cost coupled with 1/2% repeatability makes it an ideal candidate for replacing dispensing timer systems. Unlike existing timing systems, turbine technology is not influenced by changes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

Specifications

Nylon 12 Nylon 12 Composite		
Nylon 12 Composite		
PTFE/15% Graphite		
200 PSIG (13.7 bar)		
2500 PSIG (172 bar)		
-4°F to 212°F (-20°C to 100°C)		
32 to 81 SSU (.8 to 16 Centistokes)		
<50 Microns		
5 to 24 VDC @ 8mA		
NPN Sinking Open Collector @ 20mA Maximum Leakage Current 10µA (Pull-Up Resistor Required)		
±3% of Reading		
0.5% of Full Scale		
DIN 9.4mm Spacing* 24 AWG 3 ft. Cable		
3/8″ NPT Male 17mm Tube O-Ring		

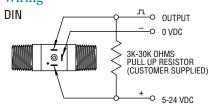


Pressure Drop—Typical

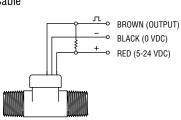


* Mating DIN ordered separately.

Wiring



Cable

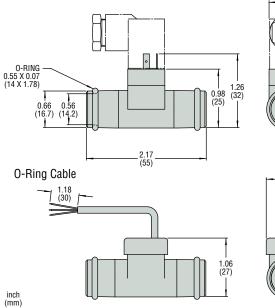


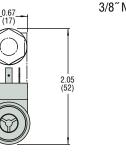
FLOW

TURBOFLOW

Dimensions

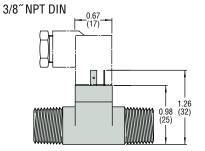


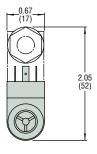


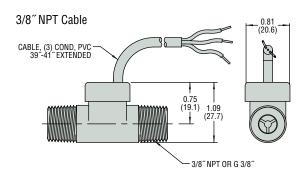


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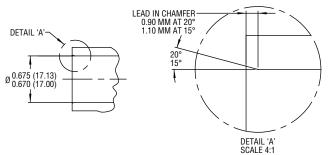






Installation: Bore Preparation

Installation Bore in accordance with ISO 3601.



How To Order – Standard Models

Specify Part Number based on flow range.

Flow	Range	Pulse	es per	Frequency 3/8" NPT Part		art Number	t Number O-Ring Part Numb	
GPM	Liters/m	Gallon	Liter	Output	Cable	DIN	Cable	DIN
.13-1.3	.5-5	26200	6900	58-575 Hz	173931-C	173931-D	244421-C	244421-D
.13-2	.5-7.5	17800	4700	39-588 Hz	173933-C	173933-D	244423-C	244423-D
.26-2.6	1-10	12500	3300	55-550 Hz	173932-C	173932-D	244422-C	244422-D
.26-4	1-15	8300	2200	37-550 Hz	173934-C	173934-D	244424-C	244424-D
.26-6.6	1-25	3800	1000	16.7-416 Hz	173935-C	173935-D	244425-C	244425-D
.53-9.2	2-35	2840	750	25-438 Hz	234265-C	234265-D	244426-C	244426-D

FT-110 Accessories

Consult factory for special customized OEM versions.

Description	Part Number
1 Meter DIN PVC Cable Assembly with 10K Pull-Up Resistor	218572
Mating DIN Connector	212404

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