7015 Realm Drive, San Jose, CA 95119 (408)281-1100 Fax (408)578-0790

NWT FI-001 Flow Integrator

The NWT FI-001 Integrator for use with high purity water consists of flow and readout modules. The unit is battery powered, and no electrical connections are necessary. Each unit is supplied with a calibration certificate for high purity water and interconnecting cabling between the flow and readout module.

Flow Module

The flow module is a positive displacement flowmeter designed for the measurement of very small flow rates in applications requiring high accuracy. It allows remote registration and totalization using a reed switch output.

Each flow module is equipped with two oval shaped gears which rotate when fluid passes through a fixed measuring chamber. Rotation of gears displaces a fixed volume of fluid. The sensor picks up gear rotation, which is proportional to fluid volume and flow rate. The meter is designed to minimize slippage between the gears and measuring chamber body. As a result, the meter is less affected by liquid viscosity and lubricity than other flowmeter designs.

General Specifications	
Size:	1.56" W x 1.56" H x 1.38"D
Accuracy:	±2% of reading
Process Fluid:	Clean liquid
Max Working Temp:	-4°F to 176°F (-20°C to 80°C)
Max working Pressure:	150 psi
Flow ranges:	70 to 1000 ml/minute
Construction:	Housing: stainless steel
Material:	Rotor: Stainless steel
Output	Reed switch for remote registration
	or totalization
Connections:	1/8" NPT female or 1/4" Swagelok

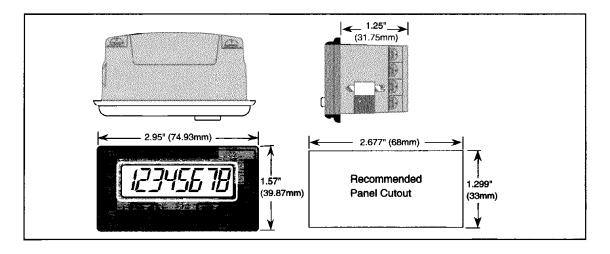


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Totalizer Readout Module

The readout module is shown below:



Readout module features are as follows:

Power	
Internal Battery:	3v lithium
Life expectancy	5+ years
Physical	
Operating temperatures:	32°F to 131°F (0°C to 55°C)
Storage temperature:	-4°F to 158°F (-20°C to 70°C)
Operating humidity:	60% Non-condensing
Weight:	2.2 oz. net
Display size:	.43" high
Front panel rating:	NEMA 4X when mounted with provided gasket
Case material:	Cycolac X-17
Totalizer/Ratemeter	
Type:	UP counting
Digits:	8
Scalar:	0.0001-100.0000
Decimal point:	5 positions, programmable
Front panel operation:	Mode select (totalizer or ratemeter), reset
Count Accuracy	100% when operated within specifications

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Installation

Installation requirements are as follows:

- Panel mount readout module (see above drawing)
- Connect cabling between flow and readout modules
- Connect tubing to inlet and outlet of the flow module

Contact S. G. Sawochka or M.A. Leonard at 1-408-281-1100 or maileonard@nwtcorp.com for pricing and delivery details.

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