

FEATURES

- Turbine flow meter
- 316 stainless steel is made with molybdenum
- Sapphire bearings
- Viton O-ring to keep out chemicals
- Hall effect sensor provides signal transmission
- Pipe diameter of a half-inch
- BSP pipe connection
- Supply voltage of 4.5 to 24 V dc
- Minimum flow rate of 0.05 L/min
- Maximum flow rate of 15 L/min
- Maximum operating pressure of 10 bar
- Typical operating frequency of 245 Hz
- Approx. K factor of 980
- Accurate to within 1%

RS PRO Turbine Flow Meter, 0.5 L/min → 15 L/min

RS Stock No.: 511-3971



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

This high-performance turbine flow meter from RS PRO delivers flow ranges from 0.05 to 15 litres a minute. It's built to last, with hardwearing sapphire bearings and a corrosion-resistant stainless steel body. A Viton O-ring seal keeps out aggressive chemicals.

The meter uses over-moulded magnets and a Hall-effect sensor to transmit a stream of NPN (negative, positive, negative) pulses that connect the output to the negative supply. It can be interfaced with electronic display or recording devices. The fixing fits on a half-inch British Standard Pipe (BSP) thread and the meter has a maximum operating pressure of 10 bar. Delivering around 980 pulses per volumetric unit, it's accurate to within 1%.

General Specifications

Device Type	Turbine
Media Monitored	Liquid
Minimum Flow Rate	0.5L/min
Maximum Flow Rate	15L/min
Maximum Pressure	10bar
Material	Stainless Steel
Standard Accuracy	1%
Linearity	1.0% FSD
Applications	Active flow alarms, semiconductor plants and drink dispensers

Electrical Specifications

Supply Voltage	4.5VDC to 24VDC
Operating Frequency	245Hz

Mechanical Specifications

Connection Type	1/2 BSP
Pipe Diameter Range	1/2 in

Standard Materials of Construction	
Body	316 stainless steel
Bearing	Sapphire
O-ring	Viton

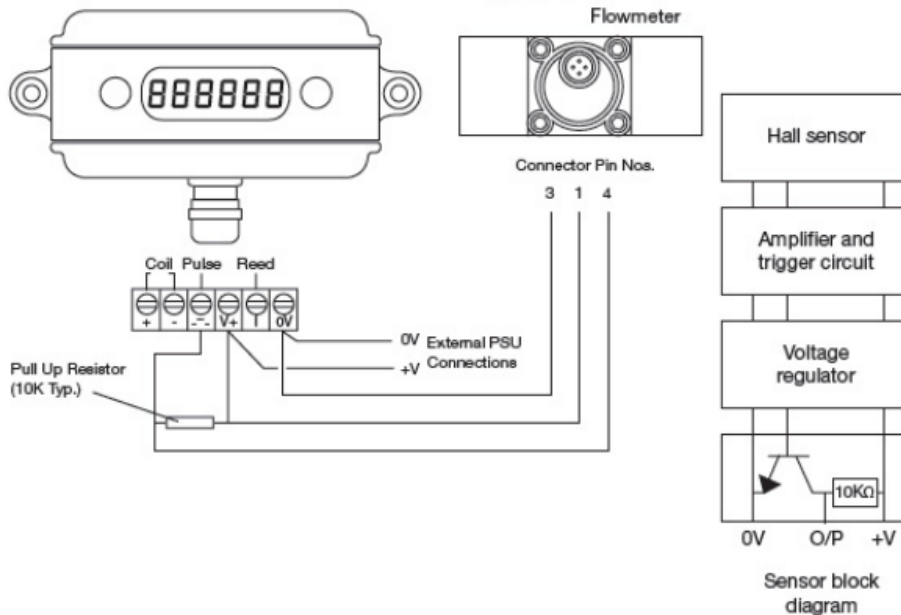
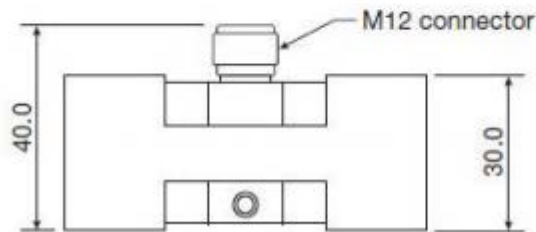
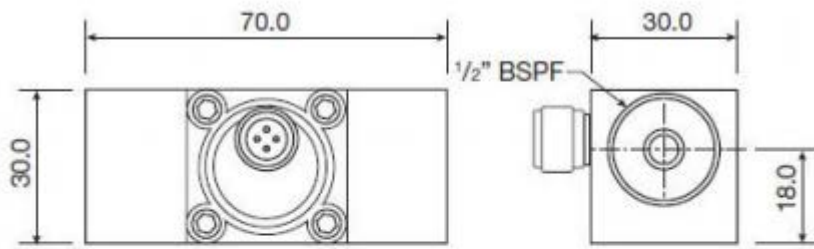
Operation Environment Specifications

Minimum Operating Temperature	-25°C
Maximum Operating Temperature	+125°C

Approvals

Compliance/Certifications	ANSI/ESD S20.20:2014 and BS EN 61340-5-1:2007, RoHS Compliant
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At the heart of the turbine flow meter is a precision turbine that rotates freely on robust sapphire bearings and contains over-moulded magnets that are detected through the chamber wall by a Hall effect detector. The output is a stream of NPN pulses that readily interfaces with most electronic display or recording devices. This combination of materials and technology ensures a long life product with reliable operation throughout. Viton 'O'Rings and 316 St St body and cap.