

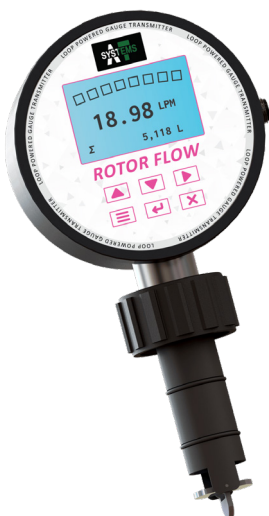
# Rotor Flow Gauge

RFG-X

## PRODUCT DATA SHEET



AT SYSTEMS



The RFG-X rotor flow gauge is an insertion type compact two-wire flow meter that draws its operating power directly from the process loop, eliminating the need for an external power supply. Rotor flow comes with 4~20 mA analog output. It is engineered for accuracy, and offers rugged performance with minimal pressure drop. RFG-X rotor flow gauge has a clear 5-digit high resolution backlit LCD with adjustable contrast. The Gauge also has an optional low powered bluetooth connectivity function for seamless wireless data access. Onboard data storage capabilities make advanced data analytics possible providing actionable insights.

### SPECIFICATIONS

<b>Measuring Range</b>	Customized ranges from 0.3 m/s to 6.0 m/s
<b>Accuracy</b>	±0.5% approx
<b>Units</b>	LPM (liters per minute), LPH (liters per day), GPM (gallons per minute), m <sup>3</sup> /hr (cubic meters per hour), m <sup>3</sup> /day (cubic meters per day), TPH (ton per hour)
<b>Totalizer</b>	<ul style="list-style-type: none"><li>9-digit resetable totalizer</li><li>Totalizer can be started from user selectable initial value</li></ul>
<b>Line Size</b>	1 inch to 8 inch (DN25 to DN200) (See model selection guide)

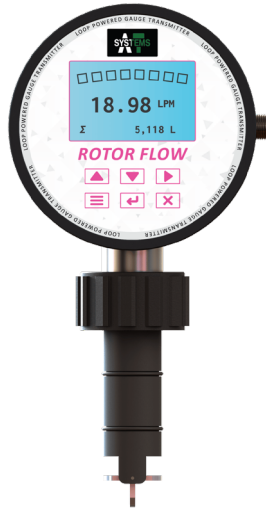
<b>Operating Temperature</b>	<b>PP</b> -18 °C to 90 °C <b>PVDF</b> -18 °C to 100 °C
<b>Maximum Operating Pressure</b>	<b>PP</b> 12.5 bar at 20°C 1.7 bar at 90°C <b>PVDF</b> 14 bar at 20°C 1.4 bar at 100°C
<b>Mechanical Connections (Imperial)</b>	<b>PVC pipe:</b> PVC Tees (1in to 2.5in), Saddle (3in to 8in) <b>SS pipe:</b> SS Tees (1in to 2.5in), weldolets (2.5in to 8in)
<b>Mechanical Connections (Metric)</b>	<b>PVC pipe:</b> PVC Tees (DN25 to DN65), Saddle (DN 80 to DN 200) <b>SS pipe:</b> SS Tees (DN25 to DN65), Weldolets (DN65 to DN200)
<b>Protections</b>	Complies to: <ul style="list-style-type: none"><li>IEC61000-4-2: ESD Protection</li><li>IEC61000-4-4: EFT Protection</li><li>IEC61000-4-5: Surge Protection</li></ul>
<b>IP Rating</b>	IP67
<b>Wetted Material</b>	PP (for standard flow gauge), PVDF, Nitrile rubber
<b>Bluetooth &amp; Data Connectivity (Optional)</b>	BLE connection with AT Systems mobile application for live data and downloads
<b>Power Requirements</b>	24VDC ±10%
<b>Power Connection Information</b>	M12 Connector with IP67 rating for easy connecting and disconnecting

### APPLICATIONS

- Process flow monitoring
- Chemical processing
- Filtration systems
- Industrial distribution systems
- Reverse osmosis plants
- HVAC systems



# MODEL SELECTION GUIDE



**RFG - X - 1 S 0 0**

## Smart Options

<b>X</b>	Bluetooth & Data Recording
<b>N</b>	No

## Pipeline Sizes

<b>1</b>	1 ~ 4 inches DN25 ~ DN100
<b>2</b>	5 ~ 8 inches DN125 ~ DN200

## Wetted Material

<b>S</b>	<ul style="list-style-type: none"> <li>• Rotor: PVDF</li> <li>• Shaft: Titanium</li> <li>• Body: PP</li> <li>• O-Ring: Nitrile-rubber</li> </ul>
<b>C</b>	<ul style="list-style-type: none"> <li>• Rotor: PVDF</li> <li>• Shaft: Shaft</li> <li>• Body: PP</li> <li>• O-Ring: FKM</li> </ul>

### NOTE:

Mechanical connection fittings are sold separately. Please order the required fittings through email or call. We highly recommend the use mechanical connection fittings provided by AT Systems.