

RT-50 Flow Transmitter

Common Uses

The RT-50 Flow Transmitter includes an easy-to-read backlit LCD display and an intuitive list menu style for easy programming and navigation. The polycarbonate housing provides a weather-tight enclosure to allow the unit to be installed outdoors. The RT-50 is ideal for flow monitoring applications such as:

- Coolant and lubrication circuits
- Test stands, calibration rigs and laboratories
- Food and beverage processing



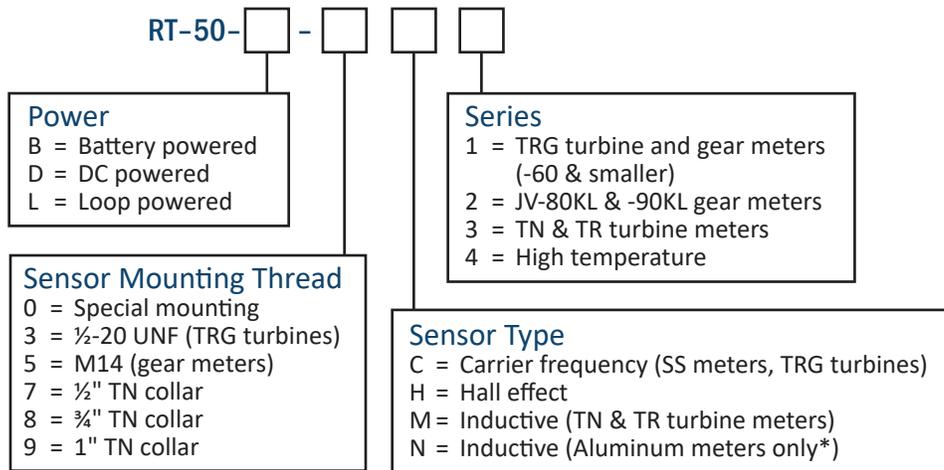
Technical Specifications

| | |
|--------------------------|---|
| Flow Meter Compatibility | JV Series positive displacement gear meters and TRG, TR and TN turbine meters. |
| Power Options | <u>Battery:</u> 3.6V "C" cell battery, field replaceable; 2-year continuous use estimated average life, depending on options enabled. <u>DC:</u> 12-24 VDC <u>Loop:</u> 2-wire 12-24 VDC |
| Backup Battery | Lithium coin battery 3V. (CR2032) Stores user data and time when battery is disconnected. |
| Response Time | 50 mS response, frequency dependent |
| Temperature Rating | -4 to 140°F (-20 to 60°C) ambient, 175°F (80°C) maximum fluid temp. |
| Input Options | Hall, Carrier, and Inductive frequency sensors. |
| Enclosure | Rugged, weather-tight enclosure made from high strength Polycarbonate. |
| Setup Options | <ul style="list-style-type: none">• Local display• Computer toolkit |
| Engineering Units | Eight selectable engineering units with no conversions to K-factors: <ul style="list-style-type: none">• Gallons• Liters• Milliliters• Meters Cubed• Cubic Centimeters• Barrels (US)• Ounces• Pulses |
| Outputs* | Frequency, 4-20 mA, and 2 limit outputs. Modbus RTU available on DC units only. |
| Linearization | 10-point linearization table using the PC Toolkit |

* Loop and DC powered units only

RT-50 Flow Rate Transmitter

Part Number Guide



* Not compatible with JVA-12

Options Based on Power Supply

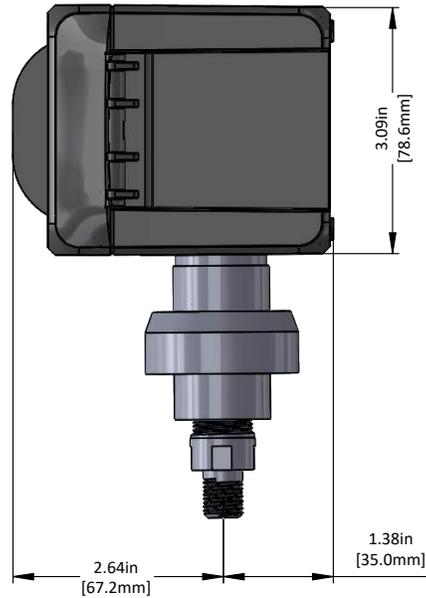
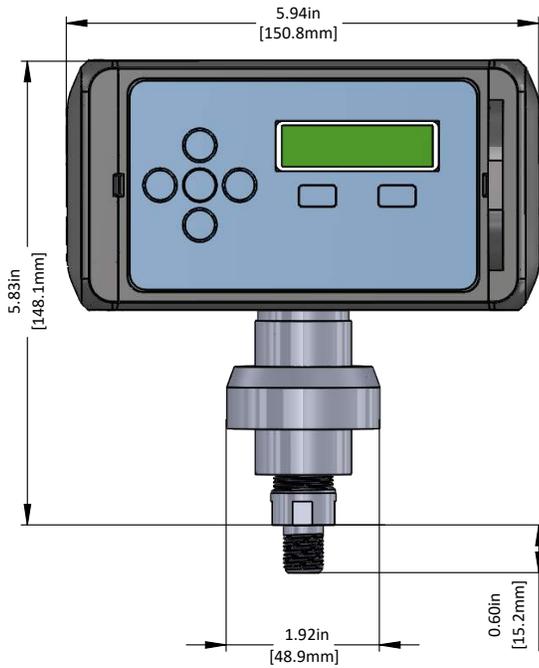
| Option | Loop Power | DC Power | Battery Power |
|--------------------|------------|----------|---------------|
| BT | ✓ | ✓ | |
| MODBUS | | ✓ | |
| Isolated In/Out | ✓ | ✓ | |
| I-OUT sourcing | | ✓ | |
| I-OUT sinking | ✓ | | |
| Hall Effect sensor | | ✓ | |
| RF/IND sensor | ✓ | ✓ | ✓ |
| V-OUT | | ✓ | |
| Backlight | ✓ | ✓ | ✓ |

3D STEP Models are available upon request of factory.
 Products may be subject to change without notice. Contact factory for the most up-to-date product information.

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Transmitter Dimensions

Weight: approx. 1 lb / 0.5 kg



End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste**. We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations**. Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001**.

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