

# RT-50 BATTERY-POWERED FLOW RATE TRANSMITTER

Ideal for any industry or flow measurement application where a local rate and total display is required and in locations where equipment is exposed to the elements.



## APPLICATIONS

The RT-50 flow display from AW-Lake features an easy-to-read backlit LCD display. With a list style menu and quick access buttons, programming is quick and easy. Flow sensor is rotatable for mounting in multiple directions. The unit's battery can provide power for over 2 years of continuous 24-hour use. The battery pack is field replaceable with no tools required. The RT-50 is compatible with most AW-Lake flow meters, as well as off-branded flow meters.

## FEATURES

- Bluetooth connectivity for easy setup and monitoring from a smart phone or tablet
- Backlit LCD display updates every 25 milliseconds
- Resettable Total and Grand Total
- Quick menu navigation
- Flow filtering
- Real time clock
- Contract time
- 10-point Linearization

## TECHNICAL SPECIFICATIONS

### Flow Meter Compatibility

JV series positive displacement gear meters and TRG, TR and TW turbine meters.

### Power

3.6V "C" cell battery, field replaceable; 3-year continuous use estimated average life, depending on options enabled.

### Backup Battery

Lithium coin battery 3V. (CR2032)  
Stores user data and time when battery is disconnected.

### Response Time

25 mS response, frequency dependent.

### Temperature Rating

-4 to 140°F (-20 to 60°C) ambient,  
175°F (80°C) maximum fluid temp.

### Input Options

Inductive and Carrier frequency sensors

### Setup Options

- Local display
- Computer connection (cable shown below)
- Mobile app through Bluetooth connection

## BENEFITS

### Up and Running in Minutes

Put in a K-factor from the calibration sheet, select your units of measure, and observe accurate flow readings.

### Bluetooth Connectivity

Use your smart phone to monitor real-time flow valves from a distance or to program and change settings.

### Extended Battery Life

Battery will last over 2 years with continuous use and saves power when not in use. It is also easily changeable in the field with no tools required.

### Multiple Engineering Units

The RT-50 has 8 different selectable engineering units with no conversions to K-factors.

### Weather-Tight Construction

Enclosure made from high strength & flame retardant Polycarbonate for use outdoors.

## ACCESSORIES

### Cables

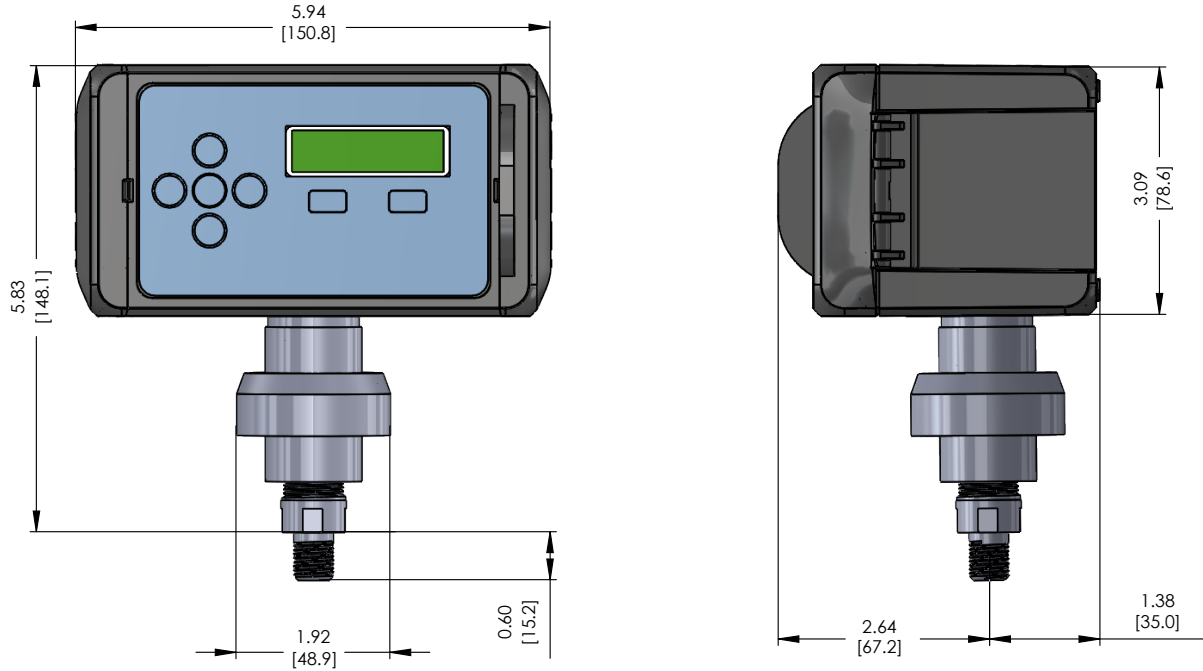
#### USB-SERIAL-4PIN

Used to connect unit to a PC to access the Toolkit for programming and setup.

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## TRANSMITTER DIMENSIONS



## PART NUMBER GUIDE

RT-50-B- [ ] [ ] [ ]

**Series**

- 1 = TRG turbine and gear meters (-60 & smaller)
- 2 = JV-80KL & JV-90KL gear meters
- 3 = TW & TR turbine meters
- 4 = High temperature
- 5 = TA3 sanitary turbine meters

**Sensor Type**

- C = Carrier frequency (SS meters, TRG turbines)
- M = Inductive (TR & TW turbine meters)
- N = Inductive (Aluminum meters)

**Sensor Mounting Thread**

- 0 = Special mounting
- 3 = 1/2-20 UNF (TRG turbines)
- 5 = M14 (gear meters)
- 7 = 1/2" TW collar
- 8 = 3/4" TW collar
- 9 = 1" TW collar

## MOBILE APP SCREENS

Screenshots of the mobile app interface showing device log, system settings, and linearizer table.

**Device Log:**

Date	Flow Rate	Total
3/11/2019 18:10	5338.000	803128.8000
3/11/2019 18:10	000	75000
3/11/2019 18:10	2473.000	800263.8000
3/11/2019 18:10	000	75000
3/11/2019 18:10	19 244.5404	743845.0000
3/11/2019 18:10	66	62500
3/11/2019 18:10	19 158.2287	743758.750000
3/11/2019 18:10	75	50000

**System Settings:**

- K-Factor (pl/gal): 6000.00
- Max Flow Rate (gal/s): 100.00
- Digital Filter Sensitivity: Off
- Flow Time Base: Minutes
- Flow Units: Gallons
- Total Units: Gallons
- Bluetooth Name: RT50 Battery

**Linearizer Table ON/OFF:**

Index	Frequency	Flow Rate	Total
<input type="checkbox"/> 0	20.000000		
<input type="checkbox"/> 1	100.00000		
<input type="checkbox"/> 2	150.00000		
<input type="checkbox"/> 3	200.00000		
<input type="checkbox"/> 4	300.00000		
<input type="checkbox"/> 5	400.00000		
<input type="checkbox"/> 6	500.00000		
<input type="checkbox"/> 7	600.00000		
<input type="checkbox"/> 8	700.000000	75.000000	
<input type="checkbox"/> 9	900.000000	165.000000	

Products may be subject to change without notice - Contact factory for the most up-to-date product information.