**SERIES RTI2**

**RATE/TOTAL INDICATOR**
Loop Powered, Converts Pulse Frequency to 4 to 20 mA, High/Low Flow Alarm

The **SERIES RTI2** Rate & Total Indicator is an indicator/transmitter that takes the pulse output signal from compatible flowmeters, displays flow rate and total, and provides output signals. It is compatible with the Series EFS2, IEFS, PDWS, and FLMG.

**FEATURES/BENEFITS**
- Can be mounted on a wall or mounted on the flowmeter for added flexibility
- Accessory mounting kits make it easy to change the mounting orientation
- High environmental protection with semi-flexible urethane potted electrical components
- Provides a pulse, 4 to 20 mA and dual-relay output

**APPLICATIONS**
- Water treatment
- Water utilities
- Industrial chemical handling

**SPECIFICATIONS**
- **Input:** 5 V pulse or contact closure; 1 to 15 pulses/s.
- **Temperature Limits:** Process: -32 to 131°F (0 to 55°C); Storage: -40 to 158°F (-40 to 75°C).
- **Output:** Current sinking square wave pulse: Scaled pulse output (0.1 s duration 6.1 Hz max. or high alarm output or low alarm output), sensor pass-through pulse output (un-scaled); Pulse output range: 0.1 to 999999.9 units/pulse; Analog: 4 to 20 mA, 24 to 30 VDC.
- **Power Requirements:** 7 to 30 VDC @ 4 mA (4 to 20 mA when loop-powered).
- **Display:** Rate: 8 digits, 1/2" H LCD; Total: 8 digits, 5/16" character height.
- **K-Factor Range:** 0.001 to 999999.999.
- **Flow Alarm Output Range:** 0.1 to 99999.99.
- **Enclosure Material Housing:** Die-cast powder-coated aluminum; Faceplate HP92W Lexan.
- **Enclosure Rating:** NEMA 4X (IP67).
- **Electrical Connections:** Terminal block, #22 AWG, 3 conductor 18' (5.5 m) cable (2000' max.).
- **Mounting:** See model chart.
- **Weight:** 3 lb (1361 g).

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**SERIES BAT**

**BLIND ANALOG TRANSMITTER**
Converts Pulse Frequency to 4 to 20 mA, Loop Powered

The **SERIES BAT** Analog Transmitters is a 4 to 20 mA transmitter for use with the Series EFS2, IEFS, PDWS, PFT and FLMG.

**FEATURES/BENEFITS**
- Easy to set up and can be either wall or meter mounted
- Takes a pulse frequency output from the compatible flow meters and converts it into a continuous 4 to 20 mA analog output signal
- The frequency for the flowmeter output signal can be adjusted using four rotary switches on the back of the transmitter and a microcontroller automatically scales all other values accordingly
- The microcontroller averages inputs for more stable reading outputs and is adjustable from 2 to 16 seconds
- Loop powered, 2 wire connection
- High environmental protection with semi-flexible urethane potted electrical components

**APPLICATIONS**
- Telemetry applications
- Data logging
- Chart recording

**SPECIFICATIONS**
- **Input:** Open-collector solid state sensor. Averaging: 2, 4, 8, 16 s (DIP switch selectable); Pulse Frequency: Min. 10 Hz @ 20 mA; Max. 999.9 Hz (rotary DIP switch selectable).
- **Temperature Limits:** 32 to 130°F (0 to 55°C).
- **Output:** 4 to 20 mA.
- **Power Requirements:** 24 to 36 VDC @ 4 to 20 mA when loop powered.
- **Response Time:** 2 to 60 s; 90% FS (depends on input averaging).
- **Loop Resistance:** 0 to 1300 Ω max.
- **Enclosure Material:** Die-cast powder-coated aluminum.
- **Enclosure Rating:** NEMA 4X (IP66).
- **Electrical Connections:** Terminal block.
- **Mounting:** See model chart.
- **Weight:** 3 lb (1361 g).

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**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTI2-W</td>
<td>Wall-mounted</td>
</tr>
<tr>
<td>RTI2-M</td>
<td>Meter-mounted</td>
</tr>
<tr>
<td>RTI2-P</td>
<td>Panel-mounted</td>
</tr>
</tbody>
</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model</th>
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<tbody>
<tr>
<td>MMK2</td>
<td>Meter mounting kit</td>
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<tr>
<td>WMK2</td>
<td>Wall mounting kit</td>
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<tbody>
<tr>
<td>BAT-M</td>
<td>Blind analog transmitter, meter-mounted*</td>
</tr>
<tr>
<td>BAT-W</td>
<td>Blind analog transmitter, wall-mounted</td>
</tr>
</tbody>
</table>

*Compatible Series: EFS2, IEFS, PDWS, TBS and FLMG.

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**Loop Resistance:** See Bulletin F-BAT