RT14 FLOW RATE TOTALIZER

The RT14 is a fully programmable self-powered flow rate totaliser specifically designed for computing & displaying flow rates & totals from flow meters with pulse, sine wave or frequency outputs. The instrument displays resettable (batch) total, accumulated total and instantaneous flow rates in engineering units as programmed by the user. Flow meter inputs: suitable use with most pulse/frequency output meters such as reed switch, coil, voltage pulse (Wiegand), NPN and PNP.

CONTROL OUTPUTS

An unscaled pulse output serves as an input signal amplifier ideally suited for coil type inputs from turbine or paddle wheel meters. The output can be transmitted over and can be configured for NPN/PNP with wiring connection.

FEATURES / BENEFITS

- Self or external powered, 8 digit LCD total, accumulated total and rate
- Robust IP66/67-NEMA4X universal mount glass reinforced nylon enclosure with rubberized buttons and polycarbonate lens
- GRN field and panel mountable housing
- Scaled pulse, 4-20mA (Loop Powered) output, multi-point linearization of flow input or frequency inputs
- Flow alarm for high, low or high/low
- PIN protected programming
- Simple flow chart touch key programming
- Non volatile memory, long battery life
- Flowmeter and pipe mount kits available
- Reverse polarity protection

PROGRAMMING

Simple PIN protected flow chart programming with English prompts guide you through the programming routine greatly reducing the need to refer to the instruction manual.

**PRODUCT CONFIGURATION**

<table>
<thead>
<tr>
<th>PRODUCT IDENTIFIER</th>
<th>ELECTRICAL ACCESS</th>
<th>FLOW INPUT TYPE</th>
<th>POWER SUPPLY</th>
<th>HOUSING TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>RT14 = Oval Gear Meter</td>
<td>M20 x 1.5 mm female threaded conduit entry ports (sealed ports remain IP66/67 when not used)</td>
<td>D = Digital (pulse or frequency)</td>
<td>0 = Self-powered (battery) or regulated 8-24V (dc)</td>
<td>FM = Universal mount (field or panel) – GRN housing</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>MM = Integral meter mount – GRN housing*</td>
</tr>
<tr>
<td></td>
<td>½ inch NPT female threaded consult entry ports</td>
<td></td>
<td></td>
<td>* Only order MM when retro fitting an instrument to OM series pulse meters</td>
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</tbody>
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**PRODUCT IDENTIFIER**

- RT14 = Oval Gear Meter

**ELECTRICAL ACCESS**

- 1 = M20 x 1.5 mm female threaded conduit entry ports (sealed ports remain IP66/67 when not used)
- 2 = ½ inch NPT female threaded consult entry ports

**FLOW INPUT TYPE**

- D = Digital (pulse or frequency)

**POWER SUPPLY**

- 0 = Self-powered (battery) or regulated 8-24V (dc)

**HOUSING TYPE**

- FM = Universal mount (field or panel) – GRN housing
- MM = Integral meter mount – GRN housing*
  * Only order MM when retro fitting an instrument to OM series pulse meters

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**PRODUCT CONGFIGURATION**

- RT14 1 D 0 FM
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LCD Display</strong></td>
<td>8 digit alpha-numeric LCD display with 12 mm characters with backlight*</td>
</tr>
<tr>
<td><strong>Instantaneous Flow Rate</strong></td>
<td>8 digit to 3 decimal points</td>
</tr>
<tr>
<td><strong>Engineering Units Displayed</strong></td>
<td>Liters, Gallons, Cubic Meters, Pounds, Kilograms or Nil</td>
</tr>
<tr>
<td><strong>Input Types</strong></td>
<td>Reed, NPN/PNP, Variable Reluctance (Turbine flowmeters), Weigand Sensors (voltage pulse)</td>
</tr>
<tr>
<td><strong>Input Frequency</strong></td>
<td>1.2 kHz (NPN/PNP), 2 kHz (Coil inputs), 120 kHz (Reed)</td>
</tr>
<tr>
<td><strong>Input Scaling Range</strong></td>
<td>0.0001 ~ 9999999.9999 with 4 floating points</td>
</tr>
<tr>
<td><strong>Linearisation</strong></td>
<td>10 point correction</td>
</tr>
<tr>
<td><strong>Pulse Outputs</strong></td>
<td>One selectable digital output for scaled pulse, unscaled pulse, high, low or high/low alarms</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-22°F - +176°F (-30°C - +80°C)</td>
</tr>
<tr>
<td><strong>Power Sources</strong></td>
<td>AA 3.6V Lithium Thionyl Chloride Battery, external voltage option (12 - 30V (dc))</td>
</tr>
<tr>
<td><strong>Enclosures</strong></td>
<td>High impact glass reinforced Nylon (PA6) with a Polycarbonate lens, Nitrile O-Ring seals and Polyurethane gaskets, providing an IP rating of IP66/67^</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>Meter &amp; stem mount, wall, pipe or panel mount*</td>
</tr>
</tbody>
</table>

* Backlight possible when connected to external power  
^ Panel mount seal kit required to maintain IP66/67 rating when separating front and rear housing for mounting

**ACCESSORIES**

- 1522001 Wall Mount Kit
- 1522002 2" Pipe Mount Kit
- 1504003 Panel Mount Seal Kit

**APPROVALS**

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**DIMENSIONS**

- 4.80" (122 mm)
- 2.85" (72.5 mm)
- 2.05" (52 mm)
- 1.02" (26 mm)
- Ø4.45" (113 mm)
- 0.85" (21.7 mm)

Service & Warranty: For technical assistance, warranty replacement or repair contact your FLOMEC® or GPI® distributor. In North or South America: 888-996-3837 / FLOMEC.net  
Outside North or South America: +61 2 9540 4433 / FLOMEC.net