Totalizing counter, battery powered
Resettable/Non resettable

Model CTR30

Description

The model CTR30 is an economical up-counting totalizer. It includes large, easy to read 0.35” tall characters. The CTR30 will increment up 1 count for each pulse it receives. Other features include selectable front panel button reset enable / disable, remote reset, and a range of input type configurations.

The low speed input is suited to contact closures such as reed switches or Elster AMCO Water’s oil meters.

Wiring diagram examples are shown on the reverse page. Full size wiring diagrams detailing the connection of the CTR30 to our industrial metering products are available from Elster AMCO Water.

Features

- LCD display
- Compact footprint
- Front panel and remote reset

Benefits

- Easy to read
- Suitable for panels or OEM use
- Simple batch process counting

**Totalizer**

8 digit total: 0 to 99,999,999
Low speed count input: 30Hz max, 50% duty cycle
Max low state voltage: 0.5 V
High speed count input: 10kHz max, 50% duty cycle
Min low voltage state: 2.0 V
Max low voltage state: 3 V
Optional remote reset: 5ms min pulse width, 1.5 V pull up to battery
Battery: 3.6 V Lithium non-replaceable, 7 year life (typical)
Wire connections: NEMA 4/IP65 - face Only
Environmental rating: 22 AWG
Operating temperature: IEC 68-2-6 5-500Hz 1.5 hrs, 5g’s
Vibration protection: IEC 68-2-27 30g’s, 11ms
Shock protection: UL508, UL50
UL listed: 2 oz (57g)
Weight: (1.77+0.024/-0x0 88+0.012/-0) in
1/32 DIN cut-out: (45+0.6/-0x22.2+3/-0) mm

8 digit LCD 0.35” (8.9mm) high digits
Dimensions in inches (mm).
Note: Recommended minimum clearance (behind the panel) for mounting clip installation is 2.1" (53.4) H x 5.5" (140) W.

**Elster Meter configuration diagrams**

<table>
<thead>
<tr>
<th>DIP switch settings</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital</td>
<td>off</td>
<td>on</td>
<td>on</td>
</tr>
</tbody>
</table>

**Low voltage inputs - wire colors**

<table>
<thead>
<tr>
<th>White</th>
<th>Blue</th>
<th>Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low voltage input</td>
<td>reset</td>
<td>common</td>
</tr>
</tbody>
</table>

**Elster Meter configuration diagrams**

<table>
<thead>
<tr>
<th>Meter</th>
<th>CTR30 white</th>
<th>CTR30 black</th>
<th>DIP 1</th>
<th>DIP 2</th>
<th>User defined: off disables use of front keys</th>
</tr>
</thead>
<tbody>
<tr>
<td>V100</td>
<td>red or yellow</td>
<td>black</td>
<td>off</td>
<td>on</td>
<td></td>
</tr>
<tr>
<td>H4000 (PR7)</td>
<td>red or yellow</td>
<td>blue or black</td>
<td>off</td>
<td>on</td>
<td></td>
</tr>
<tr>
<td>M190</td>
<td>either</td>
<td>either</td>
<td>off</td>
<td>on</td>
<td></td>
</tr>
<tr>
<td>H4400 reed</td>
<td>either</td>
<td>either</td>
<td>off</td>
<td>on</td>
<td></td>
</tr>
<tr>
<td>Oil meter reed</td>
<td>either</td>
<td>either</td>
<td>off</td>
<td>on</td>
<td></td>
</tr>
<tr>
<td>evoQ4</td>
<td>red or white</td>
<td>green</td>
<td>off</td>
<td>off*</td>
<td></td>
</tr>
</tbody>
</table>

* high flow rates with high pulse resolution may require ‘off’ setting