



MODEL RE100

ELECTRONIC REGISTER

DESCRIPTION AND SPECIFICATIONS

Bulletin 24528-18, Rev. 1.3/02-05

The RE100 Electronic Register is a battery powered device that accepts pulse inputs from a McCrometer Propeller flowmeter and simultaneously indicates both rate and total on a liquid-crystal display (LCD). The RE100 has separate scaling factors for rate and total, and also offers optional scaled pulse and industry-standard 4-20mA outputs. The RE100 is mounted in the standard McCrometer canopy housing.

**Available part numbers:**

Model #:	Installation	4-20mA Output	Pulse Output
RE100-000	Meter Mount	No	No
RE100-001	Meter Mount	No	Open Collector Transistor
RE100-012	Meter Mount	Yes	Opto-isolated Transistor
RE100-100	Remote Mount	No	No
RE100-101	Remote Mount	No	Open Collector Transistor
RE100-112	Remote Mount	Yes	Opto-isolated Transistor

NOTE: Add "-K" to the part number when ordering as a retrofit kit to an existing propeller meter. Specify the serial number of existing meter when ordering the retrofit kit.

Specifications:

<p>Environmental: Operating Temperature: 32°F to 158°F (0°C to 70°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Housing Rating: NEMA 4 EMI/EMC: Electrostatic Discharge: 8 KV (IEC 1000-4-2 Level 3) Electrical Fast Transient: 1 KV (IEC 1000-4-4 Level 3) RF Susceptibility: 150 KHz to 230 MHz @ 10 V (IEC 1000-4-6 Level 3)</p> <p>Input Signal: Type: Voltage pulse Voltage Range: 1-10 V (with hysteresis) Maximum Frequency: 3 kHz Minimum Frequency: 0.125 Hz Minimum Pulse Width: 2 μs</p> <p>Optional Scaled Pulse Output: Type: Open Collector MOS Trans. Maximum Rating: 0.1 A, 32 V Pulse Width: 32 milliseconds</p> <p>Optional 4-20mA Output Module: Type: Std 2-wire loop powered Resolution: 16 bits Operating Voltage: 12 to 32 VDC Scaled Pulse Output: Optically isolated MOS Trans. Power switch: Automatic battery override</p>	<p>Power Requirements: Battery Type: 3 VDC Lithium, Replaceable Operating Life: 4 years* Low Battery Indication: 6 months before expiration</p> <p>Display Functions: Update Time: 0.5 to 5 seconds Display Timeout: 1 to 9999 seconds Non-volatile Storage: EEPROM updated every 60 minutes (when running)</p> <p>Totalizer Functions: Display: 8 digits, 0.25" high Decimal Point: 0 to 4 places, programmable Total Scaling Factor: 0.0001 to 9999 Reset: Front Panel, can be disabled permanently</p> <p>Rate Functions: Display: 5 digits, 0.35" high Decimal Point: 0 to 4 places, programmable Rate Scaling Factor: 0.0001 to 9999 Calculation Method: 1/Tau Accuracy: \pm0.25% of reading Smoothing: 0 to 99%, programmable Rate Zero Time: 8 seconds</p>
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* - When used with the display timeout feature

Cable Color Codes:**Input Cable (Remote Mounted Only):**

Red: Sensor (+)
 Black: Sensor (-)

Output Cable (Pulse and/or 4-20 Output Only):

Red: 4-20mA (+)
 Black: 4-20mA (-)
 White: Pulse (+)
 Green: Pulse (-)

Specifications are subject to change without notice



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