LectroCount LCR-II™ Electronic Register
Pump and Print Electronic Registration

**Benefits**

- Proven long service life
- Increased accuracy with multi-point calibration
- Simple operation
- Reliable in harsh environments
- Improved efficiency relative to mechanical systems

<table>
<thead>
<tr>
<th>Features</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Weights &amp; Measures custody transfer (product delivery and ticket generation)</em></td>
<td><em>Electronic valve control</em></td>
</tr>
<tr>
<td><em>Metrological data collection</em></td>
<td><em>Electronic air or vapor elimination</em></td>
</tr>
<tr>
<td><em>Four product calibrations</em></td>
<td><em>10-digit totalizer</em></td>
</tr>
<tr>
<td><em>Multi-point and Single-point calibration</em></td>
<td><em>Two control buttons for accessing and adjusting programmable data</em></td>
</tr>
<tr>
<td><em>Printed delivery, shift, and diagnostic tickets</em></td>
<td><em>NEMA 4X enclosure</em></td>
</tr>
<tr>
<td><em>Delivery quantity and totalizer</em></td>
<td><em>-40 to 158 °F (-40 to 70 °C) temperature range</em></td>
</tr>
<tr>
<td><em>Security settings</em></td>
<td><em>Available in Class I, Div 1 or Div 2 enclosure, Groups C &amp; D</em></td>
</tr>
<tr>
<td><em>Two auxiliary outputs (settings include: On, Off, On During Delivery, Monitor Flow Rate, Toggle Flowrate, and Flow Direction)</em></td>
<td><em>Easy-to-use RUN, STOP, PRINT, SHIFT PRINT red rotary selector switch</em></td>
</tr>
<tr>
<td><em>No-flow timer</em></td>
<td><em>Hinged door for easy access to internal connections</em></td>
</tr>
<tr>
<td><em>RS232/RS485 communication</em></td>
<td><em>One closure connection point with Weights &amp; Measures sealable captive fastener</em></td>
</tr>
<tr>
<td><em>Electronic temperature volume compensation (ETVC)</em></td>
<td><em>Compatible with most flowmeters (accepts input from PD, Amplified Turbine, Electromagnetic and Mass flowmeters)</em></td>
</tr>
<tr>
<td><em>Electronic presetting by volume</em></td>
<td></td>
</tr>
</tbody>
</table>

**General Information**

Liquid Controls' LectroCount LCR-II is a microprocessor-based electronic meter register. Its primary functions include configuring the meter system to the properties of the metered liquid, interfacing with the electronic components of the meter system (and external components such as pumps, injectors, and shutdown devices), and performing Weights & Measures approved custody transfer actions.

The LCR-II performs well in both mobile and fixed installations. It can control a meter system as a stand-alone unit, or it can be used as a slave to a host controller such as a process controller or an in-cab data management system.

Operation, setup, and configuration functions can be performed using the red rotary selector switch and the ‘SELECT’ and ‘INCREASE’ buttons. An external lap pad and EZCommand, a software program for personal computers, are also available for LCR-II setup and configuration.
## Specifications

**Materials of Construction**  
Aluminum Alloy ADC12  
Corro-Coat PE 74-141 Polyester Powder Coat

**Weight**  
8.4 lbs (3.8 kg)

**Display Elements**  
Liquid crystal display (LCD)

**Cable Entry**  
½” NPT (5)  
¾” NPT (2)

**Temperature Rating**  
-40 to 158 °F (-40 to 70 °C)

**Input Voltage**  
9 to 28 VDC, 4.5 A maximum (including solenoid valves)

**Pulse Output**  
5 to 28 V peak to peak, 7500 Hz maximum

**Scale Pulse Output**  
150 mA sinking capability

**Electrical Protection**  
5 A Fuse

**Communications**  
RS-232: EIA-232E standard  
RS-485: SAE J1708 standard

**Auxiliary 1 Output**  
1 A sinking capability

**Auxiliary 2 Output**  
150 mA sinking capability

**Solenoid 1 Output**  
10.2 to 27.2 VDC  
1 A maximum

**Solenoid 2 Output**  
10.2 to 27.2 VDC  
1 A maximum

**Solenoid 3 Output**  
10.2 to 27.2 VDC  
1 A maximum

**Optical Sensor**  
+10 to +28 VDC  
0.5 A maximum

**RTD Temperature Probe**  
4 wire platinum sensor  
100 Ω resistance at 0 °C  
138.5 Ω resistance at 100 °C

**Remote Electronic Display**  
1 A sinking capability

## Dimensions

**Front View**

**Top View**

**Rear View**

**Side View**

Consult the factory when certified engineering drawings are required. Dimensions shown are not suitable for construction or modifications.

Copyright © 2004 Liquid Controls  
Pub. 500299 (10/14) ES100-20

www.lcmeter.com  
Liquid Controls  
105 Albrecht Dr.  
Lake Bluff, IL 60044