DataPoint™ LC52
Continuous Level Sensor Controller

Application
The general purpose AC powered tank or silo level controller displays engineering units with one 4-20 mA level transmitter, two programmable relays and an isolated 4-20 mA repeater. Relay one is configurable on a single set point. Relay two can be configured on a single set point or latched on two set points for automatic fill or empty control in simplex mode. Select this DIN rail mount controller for use with general purpose two or three-wire level sensors. For field mount installation, add a single or double NEMA box with optional flash and/or audible alarm.

Features
- Bright LED display indicates level in custom engineering units
- Fail-safe relay control of pumps or valves with 0-60 second delay
- Easy push button configuration of span, display and relay set points
- 35mm DIN rail mount PP enclosure with removable terminal strips
- Invert switch changes relay state from NO to NC without rewiring
- Bar graph display indicates the percentage of measured span
- Available with custom NEMA boxes and tank alarm accessories

Key Benefits
- Controls pumps, valves, horns and alarm indicators
- Complete solution for level sensor control requirements
- Lock-out feature prevents unauthorized setting changes
- 35mm DIN rail or screw mount design for easy installation

Compatible Products
- ECHOWAVE® Guided Wave Level Transmitter
- ECHOPOD® Ultrasonic Level Transmitter
- ECHOSONIC® Ultrasonic Level Transmitter
- ECHOPULSE® Pulse Radar Level Transmitter
- LU23
- LG10/LG11
- UG01
- DL14
- LR15
- LC52-1001

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## Specifications

**Display type:** LED, 3.5 digit  
**Display units:** Engineering  
**Display output:** 0 to 999  
**LED indication:** Power & relay  
**LED bar graph:** Span & set points  
**Memory:** Non-volatile  
**Security:** Set point lock out  
**Configuration:** Push button  
**Alarm indication:**  
- Amber: < 4mA  
- Red: > 20mA  
**Sensor input:**  
1) 4-20mA  
**Supply voltage:**  
- 120 / 240 VAC @ 50-60 Hz.  
- 24 VDC @ 1.5 watts  
**Loop power:**  
4-20mA, 18 VDC  
**Consumption:** 5 watts maximum  
**Contact type:**  
2) SPDT relay (1 latching)  
**Contact rating:** 250 VAC @ 10A  
**Contact output:** Selectable NO / NC  
**Contact latch:** Selectable ON / OFF  
**Contact delay:** 0.15 - 60 seconds  
**Repeater output:** 4-20mA, 12-36 VDC  
**Ambient temp.:**  
- F: -40° to 158°  
- C: -40° to 70°  
**Pressure:** Atmospheric  
**Enclosure type:** 35mm DIN rail (EN 50 022)  
**Encl. material:** PP, UL94VO  
**Classification:** General purpose

## Dimensions

**Top View**

![Top View Diagram]

**Side View**

![Side View Diagram]

## Accessories

Protect your level controller from the elements using the below single or double NEMA boxes that come with 35mm DIN rail mounting hardware.

<table>
<thead>
<tr>
<th>P/N</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>LM92-1202</td>
<td>Single NEMA box, windowed, 35mm rail, PC</td>
</tr>
<tr>
<td>LM92-2202</td>
<td>Double NEMA box, windowed, 35mm rail, PC</td>
</tr>
</tbody>
</table>

## Ordering

**LC52-1001**

NOTES

1) For field mount installation in a NEMA 4X polycarbonate enclosure, order the single or double NEMA box.