



# DataPoint™ Remote Level Controller

## Overview

The LC52 general purpose controller provides single tank level indication with 2 relays, up to three setpoints and an isolated analog repeater. Relay 1 is configurable on a single setpoint. Relay 2 can be configured on a single setpoint or latched on two setpoints for automatic fill or empty control. The controller accepts a 4-20 mA input from any type of level transmitter. The LC52 has a polycarbonate enclosure with integral 35mm DIN rail mounting.



Part No. LC52-1001

## Features

- 3.5 digit LED display indicates level in custom engineering units
- Fail-safe relay control of pumps or valves with 0-60 second delay
- Easy set up with pushbutton calibration for span, display and relay set points
- 35mm DIN rail or panel mount polypropylene (PP) enclosure with removable terminal strips
- Invert switch changes relay state from NO to NC without rewiring
- Simple controller for operating 2 alarms or 1 auto fill/empty with alarm
- Bar graph provides instant confirmation of transmitter's operational performance
- Lock-out feature prevents inadvertent setting changes
- Made in the USA



DataPoint LC52 Series Technical Specifications	
<b>Model</b>	<b>LC52-1001</b>
<b>Price</b>	\$344.00
<b>Weight (lb)</b>	1.9
<b>Supply Voltage</b>	120VAC @ 50-60 Hz (can be configured for 240VAC) 50-60 Hz
<b>Display Type</b>	LED, 3.5 digit
<b>Display Units</b>	Engineering
<b>Display Output</b>	0 to 999
<b>LED Indication</b>	Power & relay
<b>LED Bar Graph</b>	Span and setpoints
<b>Memory</b>	Non-volatile
<b>Security</b>	Setpoint lock out
<b>Configuration</b>	Pushbutton
<b>Alarm Indication</b>	Amber: < 4mA; Red: > 20mA
<b>Sensor Input</b>	(1) 4-20 mA
<b>Sensor Supply</b>	24VDC @ 1.5 W
<b>Loop Power</b>	4-20 mA, 18VDC
<b>Consumption</b>	5W maximum
<b>Contact Type</b>	(2) SPDT relays (one non-latching, one latching)
<b>Contact Rating</b>	250VAC @ 10A
<b>Contact Output</b>	Selectable NO / NC
<b>Contact Latch</b>	ON / OFF
<b>Contact Delay</b>	0-60 seconds
<b>Repeater Output</b>	4-20 mA, 12-36 VDC, 1200Ω max
<b>Ambient Temperature</b>	-40°F to 158°F [-40°C to 70°C]
<b>Enclosure Mounting</b>	35mm DIN rail or direct panel mount
<b>Enclosure Material</b>	Polypropylene (PP), UL94V0
<b>Classification</b>	General purpose
<b>Compliance*</b>	CE (EN50082-2, EN55011, EN61010-1)

\* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at [www.AutomationDirect.com](http://www.AutomationDirect.com)



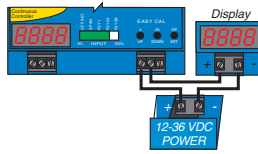
# DataPoint™ Remote Level Controller

## Wiring

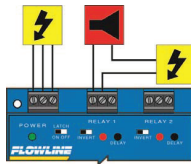
LC52 series: One 4-20mA sensor input, 2 relay outputs, 4-20mA repeater output



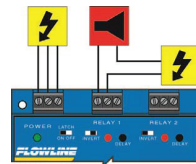
Repeater Output (4-20mA) Wiring Example:



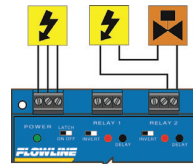
Low Level Alarm Output Wiring Example:



High Level Alarm Output Wiring Example:

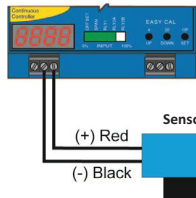


Automatic Fill Output Wiring Example:

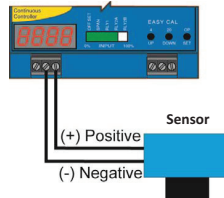


EchoSonic II (LU23, LU27, LU28 & LU29 Sensors & EchoPod (DL10, DL14, DL24 & DL34) Sourcing Mode (Factory Setting) Wiring Example:

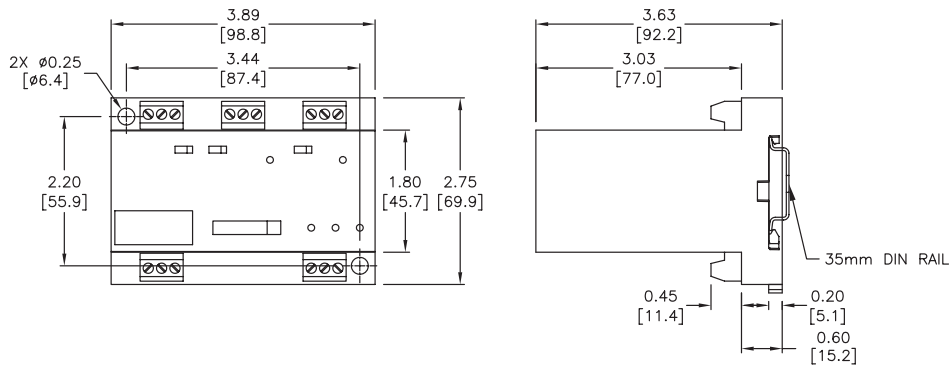
- Symbol Key:
- Power:
  - Horn:
  - Valve:



EchoSpan (LU80, LU81, LU83 & LU84 Sensors) Sourcing Mode (Factory Setting) Wiring Example:



## Dimensions inches [mm]



See our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.

## Compatible Products

**EchoSonic® II**  
Ultrasonic Level Transmitters

**EchoPod®**  
Ultrasonic Level Transmitters

**EchoSpan®**  
Ultrasonic Level Transmitter

**EchoTouch®**  
Ultrasonic Level Transmitters

**ProSense®**  
Submersible Level Transmitters

