



DataPoint™ Remote Level Controller

Overview



Part No. [LC52-1001](#)

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.

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
- 2-year warranty



DataPoint LC52 Series Technical Specifications

Model	<i>LC52-1001</i>
Price	\$00?d0:
Weight (lb)	1.9
Supply Voltage	120VAC @ 50-60 Hz (can be configured for 240VAC) 50-60 Hz
Display Type	LED, 3.5 digit
Display Units	Engineering
Display Output	0 to 999
LED Indication	Power & relay
LED Bar Graph	Span and setpoints
Memory	Non-volatile
Security	Setpoint lock out
Configuration	Pushbutton
Alarm Indication	Amber: < 4mA; Red: > 20mA
Sensor Input	(1) 4-20 mA
Sensor Supply	24VDC @ 1.5 W
Loop Power	4-20 mA, 18VDC
Consumption	5W maximum
Contact Type	(2) SPDT relays (one non-latching, one latching)
Contact Rating	250VAC @ 10A
Contact Output	Selectable NO / NC
Contact Latch	ON / OFF
Contact Delay	0-60 seconds
Repeater Output	4-20 mA, 12-36 VDC, 1200Ω max
Ambient Temperature	-40°F to 158°F [-40°C to 70°C]
Enclosure Mounting	35mm DIN rail or direct panel mount
Enclosure Material	Polypropylene (PP), UL94VO
Classification	General purpose
Compliance*	N/A

* 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



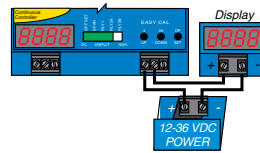
DataPoint™ Remote Level Controller

Wiring

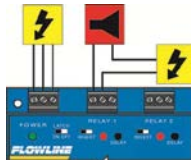
LC52 series: One 4-20mA sensor input, 2 relay outputs, 4-20mA repeater output



Repeater Output (4-20mA) Wiring Example:



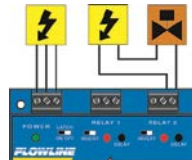
Low Level Alarm Output Wiring Example:



High Level Alarm Output Wiring Example:

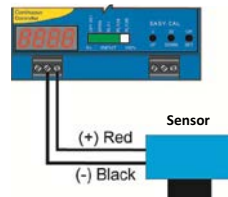
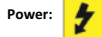


Automatic Fill Output Wiring Example:

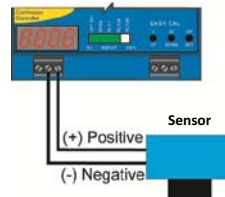


EchoSonic II (LU23, LU27, LU28 & LU29 Sensors & EchoPod (DL10, DL14, DL24 & DL34) Sourcing Mode (Factory Setting) Wiring Example:

Symbol Key:

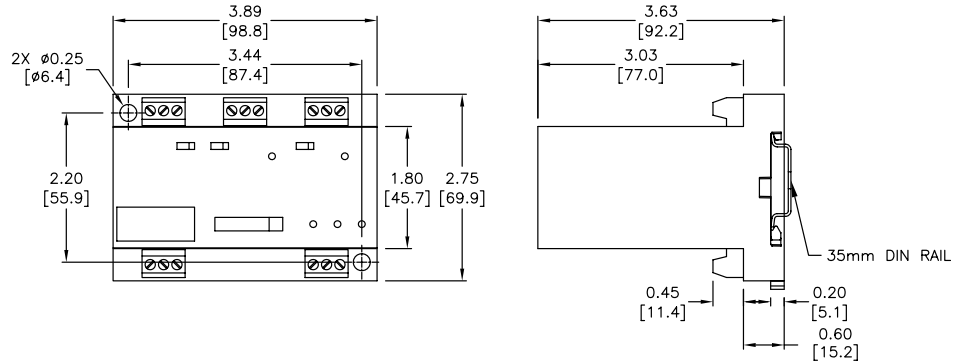


EchoSpan (LU80, LU81, LU83 & LU84 Sensors) Sourcing Mode (Factory Setting) Wiring Example:



Dimensions

inches [mm]



Compatible Products

See our website www.AutomationDirect.com for complete Engineering drawings.

EchoSonic® II
Ultrasonic Level Transmitters



EchoPod®
Ultrasonic Level Transmitters



EchoSpan®
Ultrasonic Level Transmitter



EchoTouch®
Ultrasonic Level Transmitters



Endress+Hauser
Submersible Level Transmitters

