

Economical Large Digit Display LD4-SG for strain bridge input

4 x 57mm high LED digits



Features

- 57mm high digits (visible to 25m)
- Displays in engineering units (scaleable)
- High brightness LED displays
- User selectable decimal point position
- Pushbutton calibration and setup
- Digital filter, improves stability. Uses weighted average method to reduce effects of short term interference
- Two alarm/control relay outputs (5A). The relays can be configured with high and/or low trip points and for normally open or normally closed operation
- Two point and single point offset calibration scaling methods available
- High and low limits can be set for visual alarm - can be set to cause display to flash the value on the display or to display error message –or–
- Rugged, weatherproof, IP65 rated housing
- Zero range limit facility
- Remote input to perform special functions, e.g. Brightness level switching, high/low memory, peak hold, display hold, setpoint only access, security lockout, tare, zero or calibration scale switching. The calibration scale switching function allows two sets of calibration scaling settings to be used with the user toggling between each via a remote switch
- 2 year guarantee

Description

The LD4-SG is designed for use with a 4-wire strain bridge input.

The monitor can be used with load cells, pressure transducers, level transducers etc with a mV/V output. The LD4-SG provides excitation voltage to the transducer (5VDC or 10VDC - user selectable) and can be configured for input ranges of 0.5mV/V to 20mV/V and above. The range setting is made by jumpers in the unit and by a function setting. Some jumpers are set within the instrument to define the input type but calibration, alarm settings, decimal point etc are all carried out using the push buttons on the main board of the instrument.

The 57mm LED display is housed in a rugged, IP65 rated, UV stabilised ASA enclosure.



LD4SG-2.2-0

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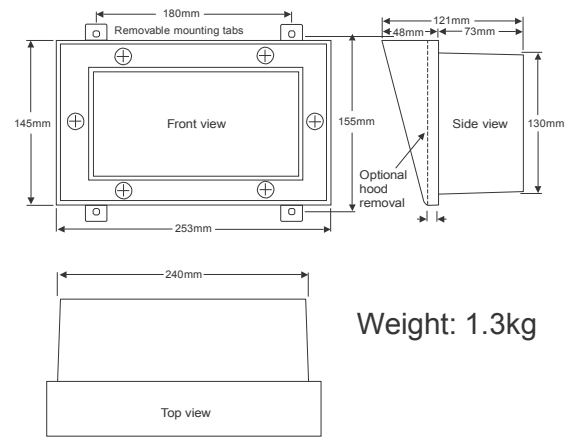
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Technical Specifications

Specifications are subject to change without notice

Input types	Load cell, pressure transducer, level sensor, etc - 4 wire type. Up to 20mV/V signal input
Excitation	10V or 5V, link selectable. 5V must be used if load cell resistance is less than 350Ω (nom-
Accuracy	0.1% of full scale when calibrated
Sample Rate	4 per second
ADC resolution	1 in 20,000
ADC conversion	Dual slope ADC
Microprocessor	MC68HC11 CMOS
Ambient temperature	-10°C to 60°C
Humidity	5% to 95%
Outputs	2 x setpoint relays, form A, rated 5A at 240VAC (resistive load)
Power Supply	See order code table (type is factory configured)
Power Consumption	AC supply: 15VA max, DC supply: depends on supply voltage, typically 500mA (2A peak) for 24VDC using non isolated DC supply

Dimensions



Weight: 1.3kg

Order Codes

Order Code	Display	Supply Voltage
LD4-SG-240-574	4 x 57mm red LED	240VAC
LD4-SG-110-574	4 x 57mm red LED	110VAC
LD4-SG-DCN-574	4 x 57mm red LED	15-24VDC non isolated
LD4-SG-DC-574	4 x 57mm red LED	12-48VDC isolated
LD4-SG-60VDC-574	4 x 57mm red LED	24-60VDC isolated

Options

Option Code	Description
LD4-OPT-C2	RS232 serial comms, non-isolated
LD4-OPT-C4	RS485 serial comms, non-isolated
LD4-OPT-A	Isolated analog retransmission 4-20mA, 0-1VDC or 0-10VDC selectable
LD4-OPT-RR	2 extra setpoint relays
LD-MTG-PM-KIT	Panel mount kit incl brackets & screws
LD-HOOD-REMOVAL	Front hood removal

Panel Mounting Options

