

Large digit displays - 38, 45, 57 or 58mm digit height models

LD-LN Analog input lineariser

The with the 38, 45, 57 & 58mm displays are ideal for applications where indications need to be visible from a distance. The linearising displays are designed for applications involving a non linear input e.g. displaying the contents of a cylindrical tank lying on its side.

Displays



6 digit 38mm high red LED
(visibility to 18m)



5 digit 45mm high red LED
(visibility to 20m)



4 digit 57mm high red LED
(visibility to 25m)

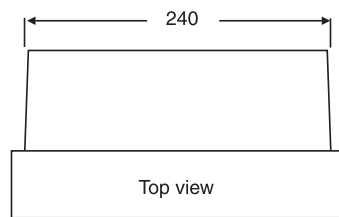
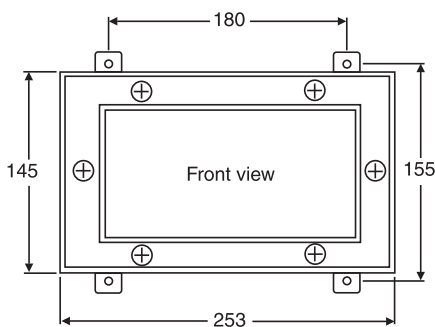


4 digit high contrast 58mm high green
LED (visibility to 25m)

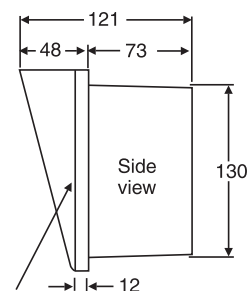


Features

- 50 point lineariser table (X & Y points)
- $\pm 20\text{mA}$, 4-20mA, $\pm 2.5\text{V}$ or $\pm 25\text{V}$ input
- 6 x 38mm LED - visibility rating to 18m
- 5 x 45mm LED - visibility rating to 20m
- 4 x 57mm or 58mm LED - visibility rating to 25m
- High contrast, daylight viewable 38 or 58mm versions in green, red, amber or white
- Scalable display from analog input
- IP65 rated wall mount enclosure
- Dual 4-20mA analog retransmission model available, the first analog output can be configured for retransmission or PI control
- 4 configurable setpoint relays rated at 240VAC, 5A into a resistive load, form C. Relays 1 & 2 can be set for alarm or PI control operation
- Panel mount kit available
- Pushbutton setup and calibration
- 2 calibration memories can be stored
- 3 configurable remote inputs as standard
- Remote inputs can be configured to one of a wide range of functions including zero, tare, peak memory, etc.
- Transmitter supply 10VDC ($\pm 5\text{VDC}$), 24VDC ($\pm 12\text{VDC}$) standard
- Programmable digital filter
- RS232 or RS485 serial communications optionally available
- Inbuilt data logger optionally available
- The auto-brightness feature for LED displays varies the display brightness to suit the ambient light
- 2 year guarantee
- See separate brochures for 100mm and 200mm display models



All dimensions in mm



Can be ordered with or without hood

LDLN384557-3.9-0

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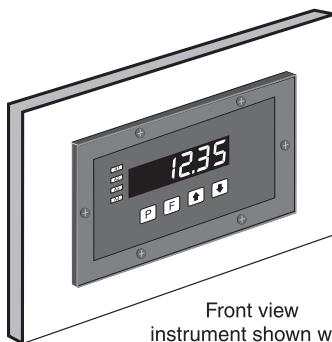
Specifications

Input:	Link selectable $\pm 20\text{mA}$, 4-20mA or $\pm 2.5\text{VDC}$ or $\pm 25\text{VDC}$ (ideal for 0 to 10VDC transmitters)
Lineariser points:	Up to 50 points can be stored
Accuracy:	Better than 0.1% when calibrated
Sample rate:	5 samples/second
ADC resolution:	1 in 32.000
ADC conversion:	Sigma delta
Microprocessor:	MC68HC11 CMOS
Ambient temp:	LED models -10°C to 60°C
Humidity:	5% to 95% non condensing
Display types:	38mm 6 digit red, green, amber or white LED with alarm annunciators and 4 way keypad 45mm 5 digit red LED with alarm annunciators and 4 way keypad 57mm red 4 digit or 58mm 4 digit red, green, amber or white LED See separate LD-IV brochures for other display sizes
Power supply:	See order code table (type is factory configured)
Power usage:	AC supply 15VA max, DC supply typically 100mA at 24VDC for 38 & 45mm standard brightness, 250mA at 24VDC for 57mm or 38 & 58mm high contrast
Outputs (standard):	4 x relays, form c, rated at 240VAC, 5A resistive
Outputs (optional):	See order code table (type is factory configured)
Relay action:	Programmable N.O. or N.C. (relays 1 & 2 can be set for PI control)
Environmental rating:	IP65
Weight:	1.3 kg
Dimensions:	See front page

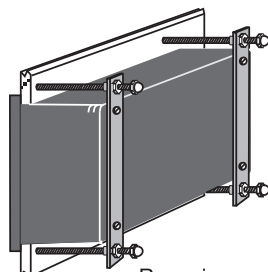
Panel mounting

The instrument is provided with removable surface (e.g.wall) mounting tabs mounting. A panel mount kit is optionally available which allows the instrument to be mounted in a panel cut out. If required the instrument can be optionally supplied with the front hood removed to allow a more flush panel mount fitting. Part number for panel mount kit: LD-MTG-PM-KIT

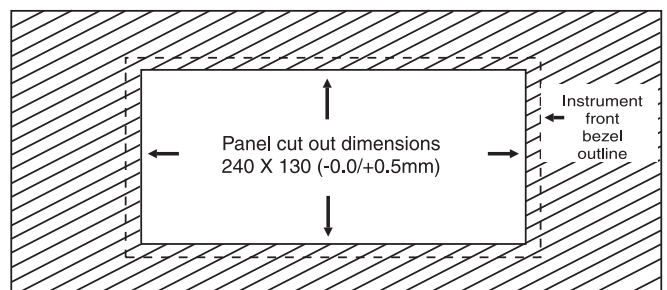
Part number for hood removal: LD-HOOD-REMOVAL



Front view
instrument shown with
optional case hood removed
case for flush mounting



Rear view
showing optional
panel mount brackets
and screws



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LD-LN order codes for 38, 45, 57 or 58mm displays

The last section is for optional outputs (if required).

Optional outputs are factory configured. Analog outputs cannot be retrofitted.

LD-LN- [] - [] - []

Power supply
240 ----- 240VAC
110 ----- 110VAC
ACD ----- 24-48VAC
DC ----- 12-48VDC isolated

Display type
38R6----- 6 digit 38mm red LED - with front pushbuttons and alarm annunciators
38D6----- 6 digit 38mm red LED - with front pushbuttons and alarm annunciators, high contrast daylight viewable
38G6----- 6 digit 38mm green LED - with front pushbuttons and alarm annunciators, high contrast daylight viewable
38A6----- 6 digit 38mm amber LED - with front pushbuttons and alarm annunciators, high contrast daylight viewable
38W6----- 6 digit 38mm white LED - with front pushbuttons and alarm annunciators, high contrast daylight viewable
45R5----- 5 digit 45mm red LED - with front pushbuttons and alarm annunciators
57R4----- 4 digit 57mm red LED
58R4----- 4 digit 58mm red LED - high contrast daylight viewable
58G4----- 4 digit 58mm green LED - high contrast daylight viewable
58A4----- 4 digit 58mm amber LED - high contrast daylight viewable
58W4----- 4 digit 58mm white LED - high contrast daylight viewable
See separate brochures for 100 and 200mm display versions

Optional outputs
232 ----- RS232 serial communications
485 ----- RS485 serial communications - non isolated
485 - I ----- RS485 serial communications - isolated
DL1 - 232 ----- 32k internal datalogger plus RS232 serial communications
DL1 - 485 ----- 32k internal datalogger plus RS485 serial communications - non isolated
DL1 - 485 - I ----- 32k internal datalogger plus RS485 serial communications - isolated
DL2 - 232 ----- 128k internal datalogger plus RS232 serial communications
DL2 - 485 ----- 128k internal datalogger plus RS485 serial communications - non isolated
DL2 - 485 - I ----- 128k internal datalogger plus RS485 serial communications - isolated
AA ----- Dual 4-20mA output
AA - 232 ----- Dual 4-20mA output plus RS232 serial communications
AA - 485 ----- Dual 4-20mA output plus RS485 serial communications - non isolated
AA - 485 - I ----- Dual 4-20mA output plus RS485 serial communications - isolated
AA - DL1 - 232 ----- Dual 4-20mA output plus 32k internal datalogger plus RS232 serial communications
AA - DL1 - 485 ----- Dual 4-20mA output plus 32k internal datalogger plus RS485 serial communications - non isolated
AA - DL1 - 485 - I ----- Dual 4-20mA output plus 32k internal datalogger plus RS485 serial communications - isolated
AA - DL2 - 232 ----- Dual 4-20mA output plus 128k internal datalogger plus RS232 serial communications
AA - DL2 - 485 ----- Dual 4-20mA output plus 128k internal datalogger plus RS485 serial communications - non isolated
AA - DL2 - 485 - I ----- Dual 4-20mA output plus 128k internal datalogger plus RS485 serial communications - isolated

Applications/input types available with large digit display models

- Analog input, process transmitters etc. $\pm 20\text{mA}$, 4-20mA or $\pm 2.5\text{VDC}$ or $\pm 25\text{VDC}$
- Pulse input, rate, total, count, grand total (encoders, switches, proximity sensors etc.)
- Temperature - RTD, thermocouple, 4-20mA
- Weighing - 4 or 6 wire mV/V output loadcells
- Pressure measurement - 4 or 6 wire mV/V pressure sensors or 4-20mA analog transducers
- Liquid level measurement - 4 or 6 wire mV/V pressure sensors or 4-20mA analog transducers
- Serial input - RS232, RS485, Serial current loop for slave displays etc.
- Synchronous Serial Interface (SSI) for high accuracy position etc. measurement
- Binary, BCD or Gray Code input
- Real Time clock with alarms
- Multifunction timer - elapsed time, stopwatch, run time etc.

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