

Large Digit Display – 100mm digit height

LD-LN 50 point lineariser

DCmA or DCV input

The linearising displays are designed for applications involving non linear input. The LD-LN with the 100mm displays will be ideal for those applications where load, pressure, weight or position indications, for example, need to be visible from a distance up to 50m.

Display examples



4 digit 100mm Red LED



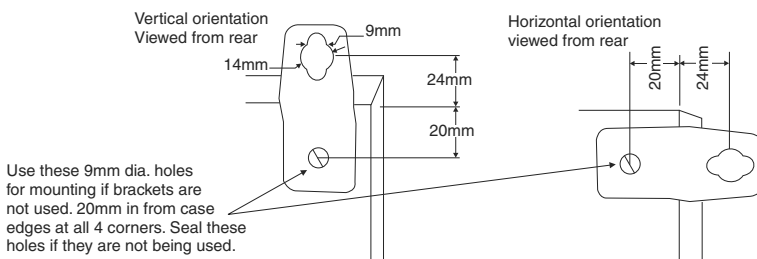
4 digit 100mm Green High Contrast (S/S Case)



6 digit 100mm Red LED

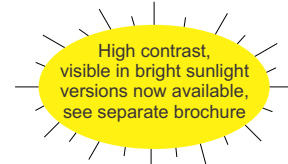
Mounting brackets

The 100mm models are shipped with 4 metal brackets and mounting hardware. The diagrams illustrate vertical and horizontal installation of these brackets. If mounting without the brackets, then the 9mm dia. case holes provided for the brackets can be used as alternative mounting holes. If the brackets are not used in mounting, then these holes should be sealed against dust and water.



Features

- Visible from 50 metres
- 4 or 6 digit 100mm Red LED
- High contrast daylight viewable versions now available in 4 or 6 digit red, green, amber or white LED
- 4, 5 or 6 digit 100mm Yellow Electromagnetic
- 50 point lineariser table (X and Y points)
- Scaleable display
- Input from 4-20mA or DCV
- IP65 rated wall mount enclosure, powder coated steel standard, stainless steel optional
- 4 configurable setpoint relays standard rated at 240VAC, 5A into a resistive load, form C
- Pushbutton setup and scaling
- Remote inputs can be configured to one of a wide range of functions including zero, display hold, peak memory etc.
- Programmable digital filter for rate display
- Dual 4-20mA analog output optionally available
- RS232 or RS485 serial communications optionally available
- Optional inbuilt datalogger
- The auto-brightness feature for LED displays varies the display brightness to suit the ambient light
- 2 year guarantee
- See separate brochures for other models



LDLN100-4.5-0

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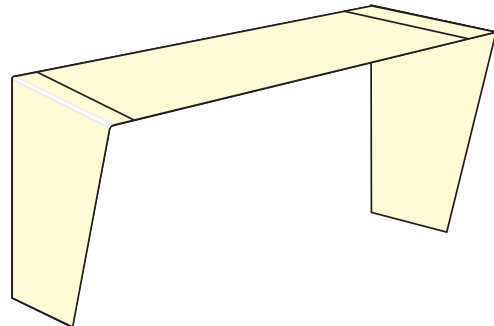
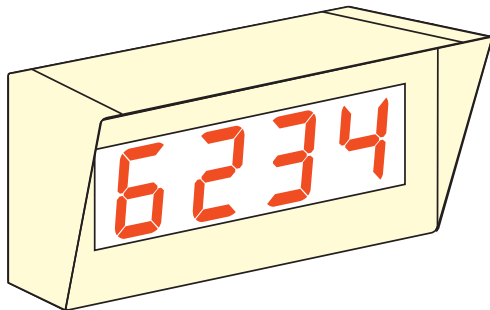
e-mail: sales@aicpl.com.au
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Specifications

Input:	Link selectable $\pm 20\text{mA}$, 4 to 20mA or DC Volts $\pm 2.5\text{V}$ or $\pm 25\text{V}$
Input impedance	64Ω nominal for 4 to 20mA/20mA range and $1\text{M}\Omega$ on DC voltage ranges.
Accuracy	Better than 0.1% when calibrated
Sensor supply	Transmitter supply 10V ($\pm 5\text{V}$) or 24V (± 12) link selectable. 25mA max. for 5, 12 or 24V. 50mA max. for 10V.
Microprocessor	MC68HC11 CMOS
Ambient temp	-10°C to 60°C
Humidity	5% to 95%
Display types:	100mm 4 or 6 digit red LED 100mm 4 or 6 digit red, green, amber or white high contrast LED 100mm 4 digit yellow electromagnetic (flip digit) 100mm 5 digit yellow electromagnetic (flip digit) 100mm 6 digit yellow electromagnetic (flip digit) See separate LD-LN brochures for other display sizes
Power supply:	See order code table (type is factory configured)
Power usage:	AC supply 50VA max, DC supply: typically 300mA at 24VDC for 4 digit standard LED displays (1A peak), typically 450mA at 24VDC for 6 digit standard LED displays (1.5A peak), typically 600mA at 24VDC for 4 digit high contrast LED displays (1A peak), typically 900mA at 24VDC for 6 digit high contrast LED displays (1.5A peak), typically 1A for electromagnetic displays (4A peak) (plus current for sensor if on board supply is used)
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.
Environmental rating:	IP65
Weight:	4 digit displays 10.5kg, 5 digit displays 12kg, 6 digit displays 13.5kg
Dimensions:	4 digit displays 450 x 250 x 155mm 5 digit displays 520 x 250 x 155mm 6 digit displays 650 x 250 x 155mm

Optional shrouds

Shroud kits for 100mm displays consist of 2 side panels, a top plate (length is model dependant) and fixing hardware. The overhang of the shroud is 90mm for all models. The shrouds are of powder coated zinc coated steel to match the metal enclosures.



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LD-LN order codes for 100mm displays

The last two sections are for optional items (if required). Optional outputs are factory configured.

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

ACL 24 or 32 or 42 or 48VAC
 ACH 240VAC or 110VAC
 DC 12-24VDC isolated

Display type
 100R4 100mm 4 digit red led
 100R6 100mm 6 digit red led
 100D4 100mm 4 digit red led - high contrast daylight viewable
 100G4 100mm 4 digit green led - high contrast daylight viewable
 100A4 100mm 4 digit amber led - high contrast daylight viewable
 100W4 100mm 4 digit white led - high contrast daylight viewable
 100D6 100mm 6 digit red led - high contrast daylight viewable
 100G6 100mm 6 digit green led - high contrast daylight viewable
 100A6 100mm 6 digit amber led - high contrast daylight viewable
 100W6 100mm 6 digit white led - high contrast daylight viewable
 100E4 100mm 4 digit yellow electromagnetic flip digit
 100E5 100mm 5 digit yellow electromagnetic flip digit
 100E6 100mm 6 digit yellow electromagnetic flip digit

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

Case type
 SS - - Stainless steel case for 4 digit displays (other sizes available on special order).
 Leave this space blank if the stainless steel version case is not required

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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