

Large Digit Display – 100mm digit height

LD-BC - BCD, Binary or Gray Code input

The BCD, Binary or Gray code input monitor, model LD-BC, is a highly visible indicator with a selection of display size options. Sixteen input lines are provided allowing for a parallel input display with 4 digits or an addressed or strobed display which allow the 4, 5 or 6 digit displays to be used.

Displays



4 digit 100mm Red LED



4 digit 100mm Yellow Flip Digit (Stainless Steel case)



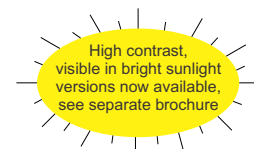
5 digit 100mm Yellow Flip Digit



6 digit 100mm Green High Contrast LED

Features

- Visible from 50 metres
- 4 digit 100mm Red LED
- 6 digit 100mm Red LED
- High contrast daylight viewable versions now available in 4 or 6 digit red, green, amber or white LED
- 4 digit 100mm Yellow Electromagnetic
- 5 digit 100mm Yellow Electromagnetic
- 6 digit 100mm Yellow Electromagnetic
- BCD or Binary or Gray code input
- Active high or low input selectable
- Selectable display update rate
- Up to 16 bit parallel input or addressed or strobed input
- IP65 rated wall mount enclosure, powder coated steel standard, stainless steel optional
- Special mode allows display of some alpha characters e.g. π
- Display value can be shifted via 2 point scaling
- Pushbutton setup
- RS232 or RS485 serial communications 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 38, 45, 57mm, 58mm and 200mm display models



LD-BC100-4.6-0

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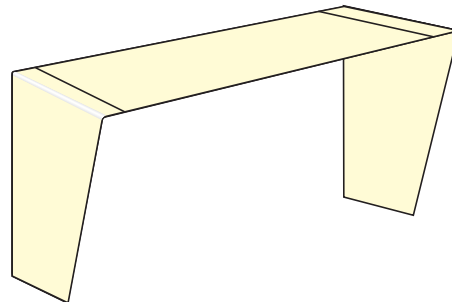
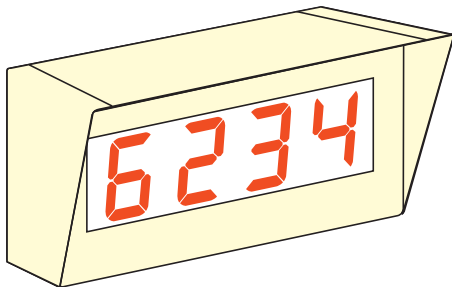
e-mail: sales@aicpl.com.au
Internet: www.aicpl.com.au

Specifications

Input:	Up to 16 bit parallel binary, BCD or Gray Code Parallel, strobed or addressed Special scaled input mode. Special "weighted" binary input
Input Level:	Voltage free contact closure 5VDC, 12VDC to 24VDC or 48VDC signal level (input is factory configured)
Input logic:	High or low selectable
Decimal point:	User selectable or selectable via remote inputs for BCD inputs
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-BC 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 (optional):	See order code table (type is factory configured)
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

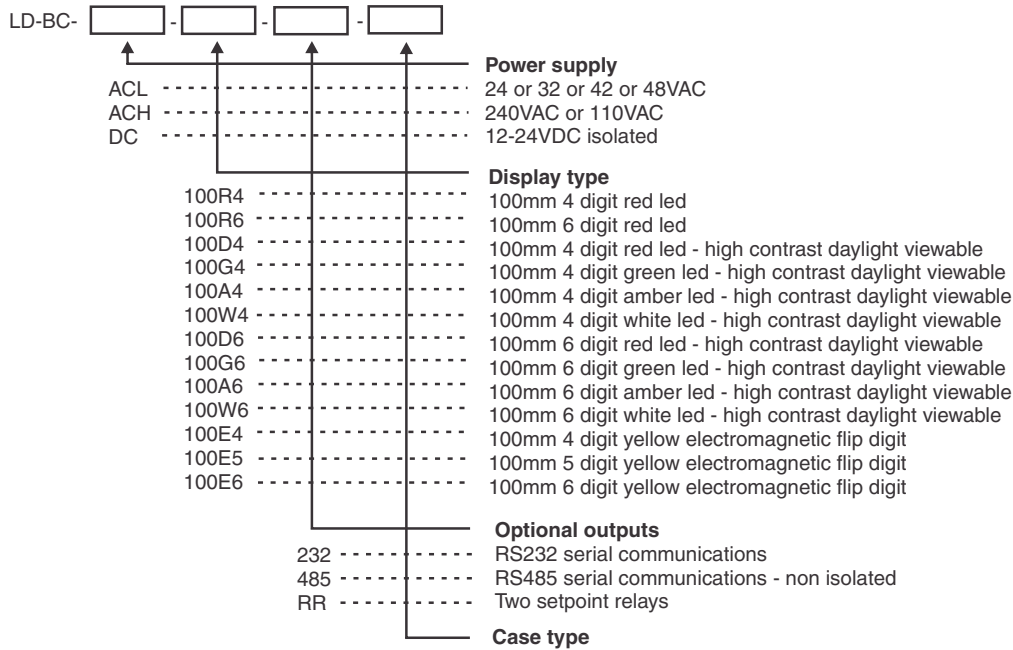
Shroud kits for 100mm displays consist of 2 side panels, a top plate (length is model dependant) and fixing hardware. The overhang of the shroud is 90mm for all models. The shrouds are of powder coated zinc coated steel to match the metal enclosures.



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LD-BC order codes for 100mm displays

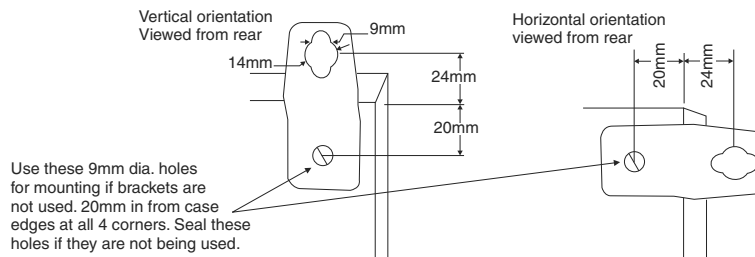
The last two sections are for optional items (if required).
Optional outputs are factory configured.



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 diameter 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.



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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