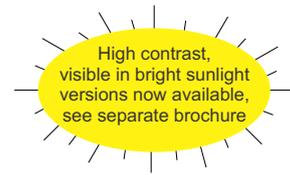


# LD-WT Large Digit Display

100mm digit height

For load cell/strain bridge transducers with mV/V output



The LD-WT with the 100mm displays will be ideal for those applications where load, pressure or weight indications need to be visible from a distance of up to 50m. Foundries, smelters, weighbridges, storage tanks, and silos are just some of the possible applications for these large digit displays.

## Display examples

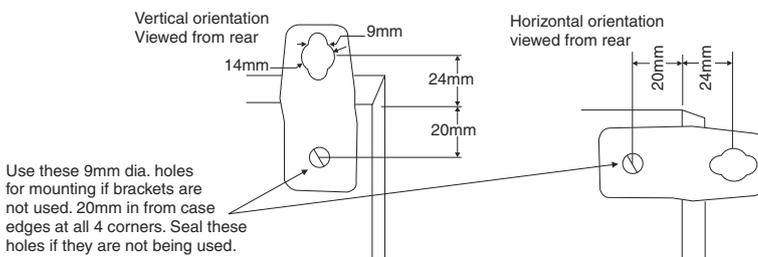


4 digit 100mm Red LED



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

**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.



## Features

- 4 or 6 wire mV/V input with 5, 10 or 15VDC excitation
- 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
- Load, weight, pressure display from mV/V output strain bridge transducer
- Totalling function available using remote pushbutton
- IP65 rated wall mount enclosure, powder coated steel standard, stainless steel optional
- Dual 4-20mA analog retransmission model available
- 4 configurable setpoint relays standard rated at 240VAC, 5A into a resistive load, form C
- Pushbutton setup and calibration, display can be scaled without special tools
- 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 hold, etc.
- 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 38, 45, 57, 58mm and 200mm display models



LDWT100-4.7-0

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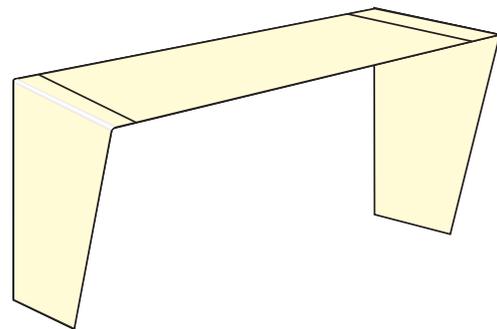
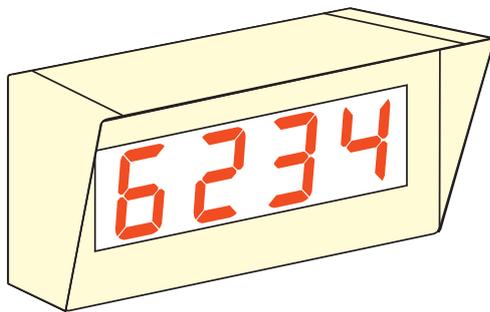
e-mail: sales@aicpl.com.au  
Internet: www.aicpl.com.au

## Specifications

|                       |   |
|-----------------------|---|
| Input:                | 4 or 6 wire load cell, pressure transducer or strain bridge with mV/V output  |
| Accuracy:             | Up to 0.005% of full scale (alarms and display) dependant on sample rate, mV/V input, calibration method and digital filter setting<br>With analog retransmission better than 0.05% system accuracy   |
| Sample rate:          | 10 to 100 samples/second selectable   |
| Display update:       | 4 times per second  |
| ADC resolution:       | Up to 22 bits   |
| ADC conversion:       | Sigma delta   |
| Microprocessor:       | MC68HC11 CMOS   |
| Ambient temp:         | -10°C to 60°C   |
| Humidity:             | 5% to 95% non condensing  |
| Display types:        | 100mm 4 or 6 digit red LED<br>100mm 4 or 6 digit red, green, amber or white high contrast LED   |
| Power supply:         | See order code table (type is factory configured)   |
| Power usage:          | AC supply 50VA max,<br>DC supply:<br>typically 300mA at 24VDC for 4 digit standard LED displays (1A peak),<br>typically 450mA at 24VDC for 6 digit standard LED displays (1.5A peak),<br>typically 600mA at 24VDC for 4 digit high contrast LED displays (1A peak),<br>typically 900mA at 24VDC for 6 digit high contrast LED displays (1.5A peak),<br>typically 1A for electromagnetic displays (4A peak)<br>(plus current for load cell which depends on load cell impedance) |
| 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<br>5 digit displays 520 x 250 x 155mm<br>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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