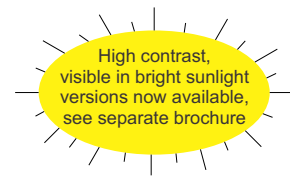


# LD-WT Large Digit Display

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



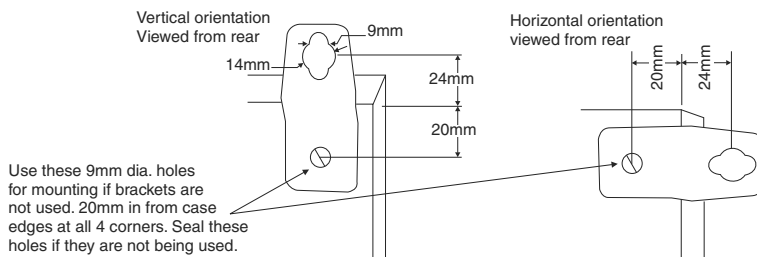
4 digit 100mm Red LED



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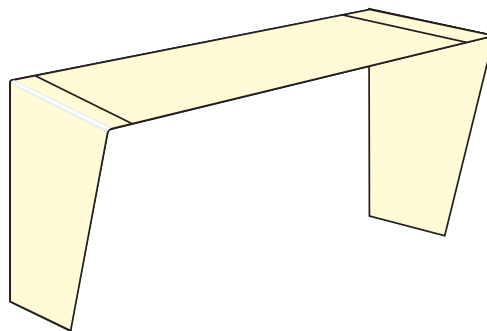
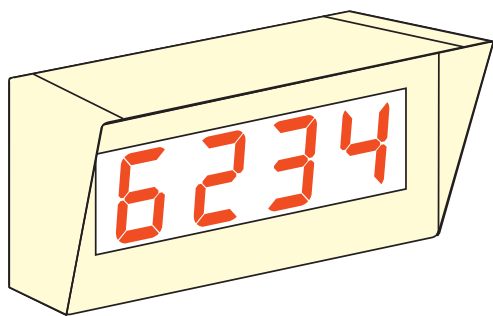
e-mail: sales@aicpl.com.au  
Internet: www.aicpl.com.au

## 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 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 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, 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 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 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-WT order codes for 100mm displays

The last two sections are for optional items (if required).

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

LD-WT-		-		-		-	
ACL	-----						
ACH	-----						
DC	-----						
<b>Power supply</b>							
24 or 32 or 42 or 48VAC							
240VAC or 110VAC							
12-24VDC isolated							
<b>Display type</b>							
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
<b>Optional outputs</b>							
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
<b>Case type</b>							
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 - see individual brochures

- 8 channel scanning, RTD, Thermocouple and 4-20mA/DCV input versions available
- 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 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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