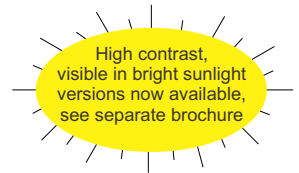


# Large Digit Display – 200mm digit height

## LD-TM universal temperature display

For temperature from RTD or thermocouple sensor or 4-20mA or DCV or mV



### Description

The LD-TM range of large digit displays is designed for use with a wide range of temperature sensors and transmitters.

- Pt100 or Pt1000 RTD sensors
- Type B, E, J, K, N, R, S or T thermocouples
- $\pm 20\text{mV}$ ,  $\pm 50\text{mV}$ ,  $\pm 75\text{mV}$  or  $\pm 200\text{mV}$  input
- 4-20mA,  $\pm 2.5\text{VDC}$  or  $\pm 25\text{VDC}$  input

Calibration, alarm settings, decimal point etc. are all carried out using the push buttons on the main board of the instrument.

Optional internal datalogging is available. The option offers 32K or 128K capacity. This feature includes Windows compatible software that allows graphical display and also allows the data to be formatted for use with other products such as spreadsheets.

This feature requires the LD-TM to have serial communications installed.

The 200mm LED digit displays are housed in rugged, IP65 rated, powder coated zinc coated steel enclosures.

Red, Green, Amber or White LED versions available.

A shroud is available for the 200mm displays to provide some protection from direct light if required.

### Features

- Visibility rating to 100m
- 4 x 200mm high Red LED  
Green, Amber or White available to special order
- Input from a wide range of sensors
- Measurement in Degrees C or Degrees F or Degrees K (absolute)
- Can be configured to show display units  
i.e. ° or C or F or °C or °F
- 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 calibration
- Remote inputs can be configured to one of a wide range of functions including display switching, display hold, peak hold, etc.
- Programmable digital filter for rate display
- 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, 57, 58mm and 100mm display models



LDTM200-3.8-0

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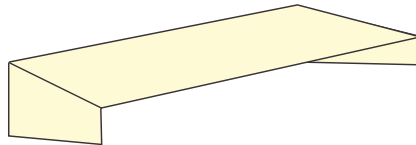
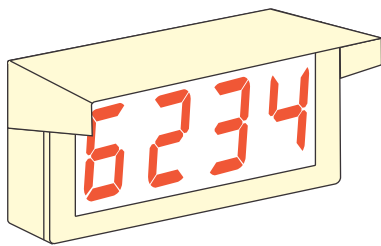
e-mail: [sales@aicpl.com.au](mailto:sales@aicpl.com.au)  
Internet: [www.aicpl.com.au](http://www.aicpl.com.au)

## Specifications

Input:	Pt100 or Pt1000 RTD sensors or Type B, E, J, K, N, R, S or T thermocouple or $\pm 20\text{mV}$ , $\pm 50\text{mV}$ , $\pm 75\text{mV}$ or $\pm 200\text{mV}$ or 4-20mA, $\pm 2.5\text{VDC}$ or $\pm 25\text{VDC}$ analog signals
Accuracy:	RTD, 4-20mA, DCV, DCmV 0.1% of full scale when calibrated Thermocouples 0.1% of full scale $\pm 1^\circ$
Sample rate:	4-20mA, DCV & DCmV - 4 samples/sec RTD - 2 sample/sec Thermocouple - 1 sample/sec
Microprocessor	MC68HC11 CMOS
Ambient temp	$-10^\circ\text{C}$ to $60^\circ\text{C}$
Humidity	5% to 95%
Display type:	200mm red led (green, amber or white available to special order) in either standard brightness or high contrast version See separate LD-TM brochures for other display sizes
Outputs (standard):	4 x relays, form C, rated at 240VAC, 5A resistive Relays 1 and 2 configurable for setpoint or PI control
Outputs (optional):	See order code table (type is factory configured)
Relay action:	Programmable N.O. or N.C.
Environmental rating:	IP65
Size:	850 x 360 x 155mm
Weight:	13kg
Power Supply:	See order code table(type is factory configured)
Power Consumption: (standard brightness)	AC supply: 50VA max, DC supply: depends on supply voltage, typically 1.3A for 24VDC

## Optional shrouds

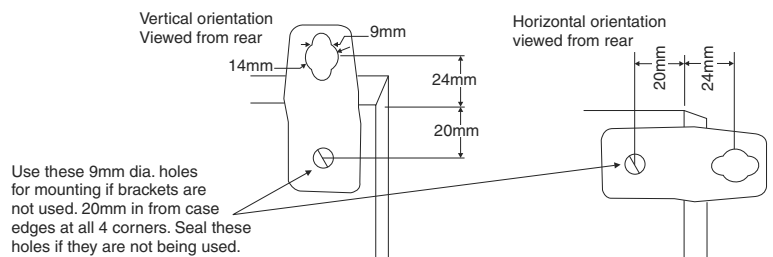
Shroud kits for 200mm displays consist of 2 side panels, a top plate and fixing hardware. The overhang of the shroud is 150mm. The shrouds are of powder coated zinc coated steel to match the metal enclosures.



## Mounting brackets

The 200mm 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.



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## LD-TM order codes for 200mm displays

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

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

LD-TM-		-		-		-	
ACL	-----						
ACH	-----						
DC	-----						
200R4	-----						
200G4	-----						
200A4	-----						
200W4	-----						
200RD	-----						
200GD	-----						
200AD	-----						
200WD	-----						
232	-----						
485	-----						
485 - I	-----						
DL1 - 232	-----						
DL1 - 485	-----						
DL1 - 485 - I	-----						
DL2 - 232	-----						
DL2 - 485	-----						
DL2 - 485 - I	-----						
AA	-----						
AA - 232	-----						
AA - 485	-----						
AA - 485 - I	-----						
AA - DL1 - 232	-----						
AA - DL1 - 485	-----						
AA - DL1 - 485 - I	-----						
AA - DL2 - 232	-----						
AA - DL2 - 485	-----						
AA - DL2 - 485 - I	-----						
SS	---						

**Power supply**  
24 or 32 or 42 or 48VAC  
240VAC or 110VAC  
12-24VDC isolated

**Display type**  
200mm 4 digit red led - standard brightness  
200mm 4 digit green led - standard brightness  
200mm 4 digit amber led - standard brightness  
200mm 4 digit white led - standard brightness  
200mm 4 digit red led - high contrast daylight viewable  
200mm 4 digit green led - high contrast daylight viewable  
200mm 4 digit amber led - high contrast daylight viewable  
200mm 4 digit white led - high contrast daylight viewable

**Optional outputs**  
RS232 serial communications  
RS485 serial communications - non isolated  
RS485 serial communications - isolated  
32k internal datalogger plus RS232 serial communications  
32k internal datalogger plus RS485 serial communications - non isolated  
32k internal datalogger plus RS485 serial communications - isolated  
128k internal datalogger plus RS232 serial communications  
128k internal datalogger plus RS485 serial communications - non isolated  
128k internal datalogger plus RS485 serial communications - isolated  
Dual 4-20mA output  
Dual 4-20mA output plus RS232 serial communications  
Dual 4-20mA output plus RS485 serial communications - non isolated  
Dual 4-20mA output plus RS485 serial communications - isolated  
Dual 4-20mA output plus 32k internal datalogger plus RS232 serial communications  
Dual 4-20mA output plus 32k internal datalogger plus RS485 serial communications - non isolated  
Dual 4-20mA output plus 32k internal datalogger plus RS485 serial communications - isolated  
Dual 4-20mA output plus 128k internal datalogger plus RS232 serial communications  
Dual 4-20mA output plus 128k internal datalogger plus RS485 serial communications - non isolated  
Dual 4-20mA output plus 128k internal datalogger plus RS485 serial communications - isolated

**Case type**  
Stainless steel case (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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