

Large Digit Display – 100mm digit height

LD-TM universal temperature displays

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

The 100mm digit height LD-TM displays are ideal for applications where temperature needs to be visible from a distance (rated for up to 50 metres). Foundries, smelters, commercial swimming pools, greenhouses, workplaces, coolrooms and chemical processing facilities are just some of the possible applications for these large digit displays.

Display examples

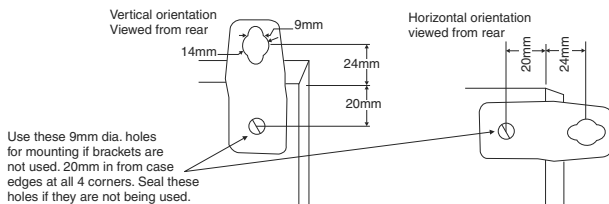


4 digit 100mm Red LED showing units



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 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 digit, 5 or 6 digit 100mm Yellow Electromagnetic
- Input from Pt100 or Pt1000 RTD or Type B, E, J, K, N, R, S or T thermocouple $\pm 20\text{mV}$, $\pm 50\text{mV}$, $\pm 75\text{mV}$ or $\pm 200\text{mV}$ 4-20mA, $\pm 2.5\text{VDC}$ or $\pm 25\text{VDC}$.
- Measurement in Degrees C or Degrees F or Degrees K (absolute)
- Can be configured to show display units i.e. $^{\circ}$ or $^{\circ}\text{C}$ or $^{\circ}\text{F}$ or $^{\circ}\text{C}$ or $^{\circ}\text{F}$
- 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 200mm display models



LDTM100-3.8-0

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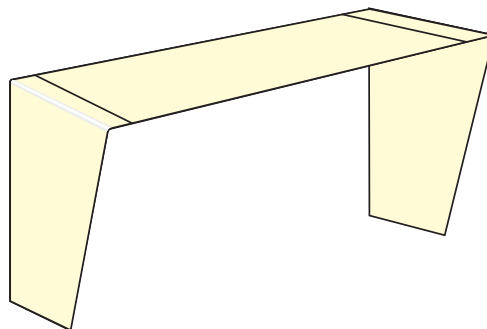
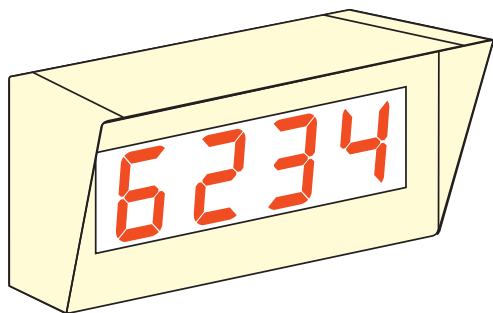
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Specifications

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 $4\text{-}20\text{mA}$, $\pm 2.5\text{VDC}$ or $\pm 25\text{VDC}$ analog signals
Accuracy:	RTD, $4\text{-}20\text{mA}$, DCV, DCmV 0.1% of full scale when calibrated Thermocouples 0.1% of full scale $\pm 1^\circ$
Sample rate:	$4\text{-}20\text{mA}$, DCV & DCmV - 4 samples/sec RTD - 2 sample/sec Thermocouple - 1 sample/sec
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 brochures for other display sizes
Power supply:	See order code table (type is factory configured)
Power usage:	AC supply 50VA max, 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)
Transmitter supply:	10VDC (50mA max), $\pm 5\text{VDC}$ (25mA max), 24VDC (25mA max) or $\pm 12\text{VDC}$ (25mA max) link selectable
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-TM 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-TM-				
ACL	-----			Power supply
ACH	-----			24 or 32 or 42 or 48VAC
DC	-----			240VAC or 110VAC
				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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