

Large Digit Display – 100mm digit height

LD-TMR multifunction timer

The LD-TMR range of large digit displays has a variety of timing modes available. The displays can be used to display the time duration for which the input was active or it can be used with contact closure or 0-5VDC signals for "START", "STOP" and "RESET" stopwatch operation.

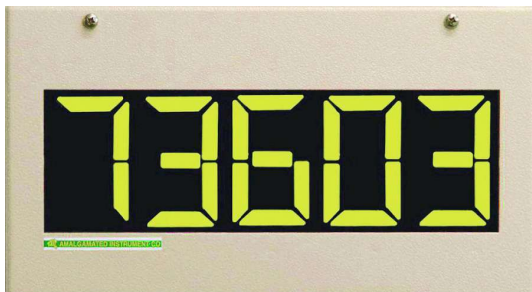
Display examples



4 digit 100mm Red LED



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



5 digit 100mm Yellow Flip Digit



6 digit 100mm Red LED

Features

- Visible from 50 metres
- High contrast daylight viewable versions now available in 4 or 6 digit red, green, amber or white LED
- 4, 5, or 6 digit 100mm Yellow Electromagnetic
- Versatile timing modes
- Up or down timing or stopwatch operation
- Reciprocal timing mode allows velocity to be displayed
- Display configurable from seconds, minutes and seconds etc. to days display
- Configurable for most single output pulse type encoders, switches etc.
- IP65 rated wall mount enclosure, powder coated steel standard, stainless steel optional
- 2 configurable setpoint relays standard rated at 240VAC, 5A into a resistive load, form C
- Remote reset or programmable automatic reset
- Pushbutton setup and scaling
- Remote inputs can be configured to one of a wide range of functions including zero, 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



LDTMR100-3.0-0

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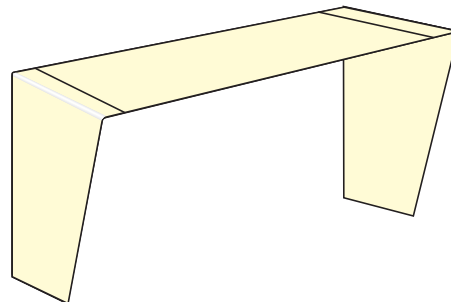
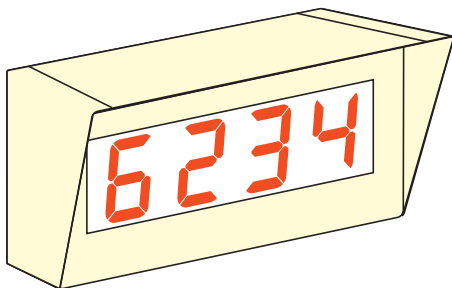
e-mail: sales@aicpl.com.au
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Specifications

Timer input:	Selectable types inc: NPN, PNP, switch contact, magnetic pickup, output from TTL, CMOS, square wave, etc
Reset input	Voltage free switch contact or 5VDC signal
Stop input	Voltage free switch contact or 5VDC signal
Memory	Battery backed time memory
Display update:	4 per second
Input Impedance	10k Ω
Sensor supply	5 VDC regulated or 18 to 24VDC unregulated, link selectable (50mA max.)
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-TMR brochures for other display sizes
Power supply:	See order code table (type is factory configured)
Power usage:	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 (standard):	2 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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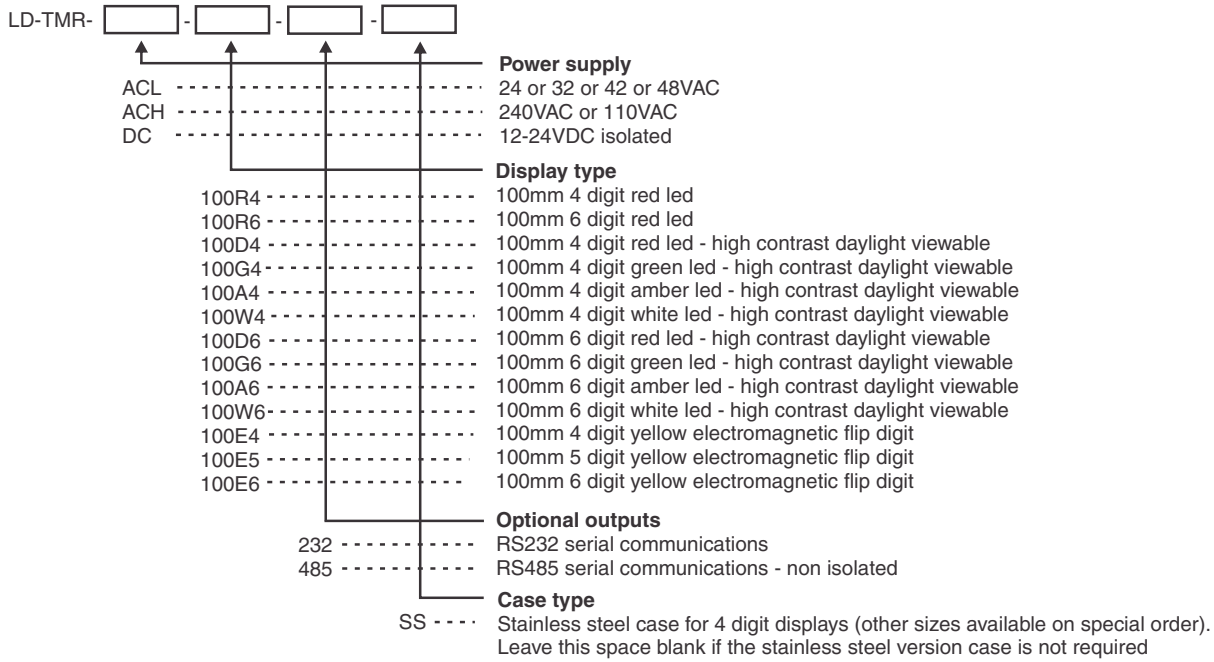
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LD-TMR order codes for 100mm displays

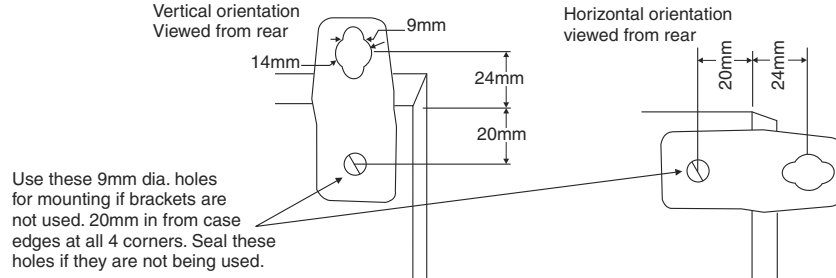
The last two sections are for optional items (if required).
Optional outputs are factory configured.



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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