Large digit displays - 38, 45, 57 or 58mm digit height models

LD-TMR multifunction timer

The LD-TMR with the 38mm, 45mm & 57mm displays will be ideal for timing applications where elapsed time or period measurement indications need to be visible at a distance. The instrument can be used for elapsed time or stopwatch functions with comprehensive alarm functions. High contrast versions, viewable even in bright sunlight are available in 38mm and 58mm digit hight in red, green, amber or white.

Displays

6 digit 38mm high red LED (visibility to 18m)

5 digit 45mm high red LED (visibility to 20m)

4 digit 57mm high red LED (visibility to 25m)
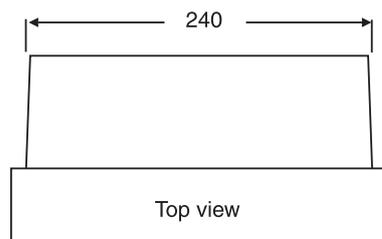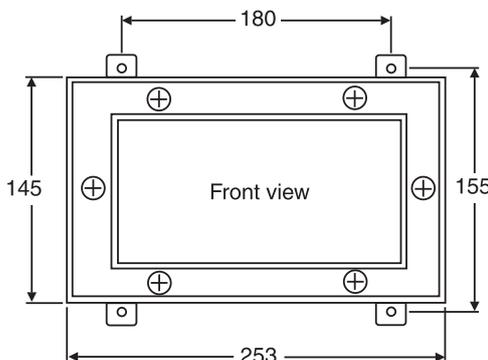

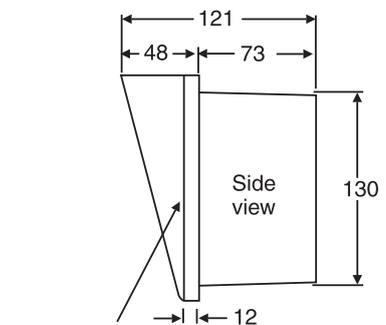4 digit high contrast 58mm high green LED (visibility to 25m)

Features

- 6 x 38mm LED - visibility rating to 18m
- 5 x 45mm LED - visibility rating to 20m
- 4 x 57mm or 58mm LED - visibility rating to 25m
- High contrast, daylight viewable 38 or 58mm versions in green, red, amber or white
- Stopwatch (start/stop/reset inputs), elapsed time and pulse timer modes
- 3 time modes available, time display, scaled time display or inverse time (e.g. velocity) display
- Single pulse timing or accumulating time display
- Resolution down to 0.01 seconds
- Compatible with a wide range of input sensor types with a pulse output
- IP65 rated wall mount enclosure
- 2 configurable setpoint relays rated at 240VAC, 5A into a resistive load, form A.
- Panel mount kit available
- Pushbutton setup and scaling
- Input can be configured to one of a wide range of functions including zero, peak hold, etc.
- Programmable digital filter
- 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 39mm flip digit, 100mm LED and flip digit and 200mm LED display models

Front view

Top view

Side view

Can be ordered with or without hood

All dimensions in mm

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Specifications

Input types	Selectable types inc: NPN, PNP, switch contact, magnetic pickup, output from TTL, CMOS, square wave, etc
	Maximum 48VDC
Reset input	Voltage free switch contact or 5VDC signal
Memory	Battery backed time memory
Resolution	10mS when suitable display mode is selectd
Input Impedance	10kΩ
Display types:	38mm 6 digit red, green, amber or white LED with alarm annunciators and 4 way keypad
	45mm 5 digit red LED with alarm annunciators and 4 way keypad
	57mm 4 digit red or 58mm 4 digit red, green, amber or white LED
Sensor supply	5 VDC regulated or 18 to 24VDC unregulated, link selectable **(25mA max.)**
	For DC supply versions the unregulated supply is slightly less than supply voltage
Microprocessor:	MC68HC11 CMOS
Ambient temp:	-10°C to 60°C
Humidity:	5% to 95% non condensing
	See separate LD-TMR brochures for other display sizes
Power supply:	See order code table (type is factory configured)
Power usage:	AC supply 15VA max,
	DC supply typically 100mA at 24VDC for 38 & 45mm standard brightness,
	250mA at 24VDC for 57mm or 38 & 58mm high contrast
Outputs (standard):	2 x relays, form A, 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:	1.3 kg
Dimensions:	See front page

Operation modes for the LD-TMR

In non scaled timing mode there are 9 different timing modes available. For example the display can be set to increment during the active period and accumulate with the subsequent active inputs (e.g. hours run) or to reset automatically on receipt of the next active input. Stopwatch modes allow for up or down counting using separate start, stop and reset inputs. Some modes will automatically reset, other modes require and external reset input.
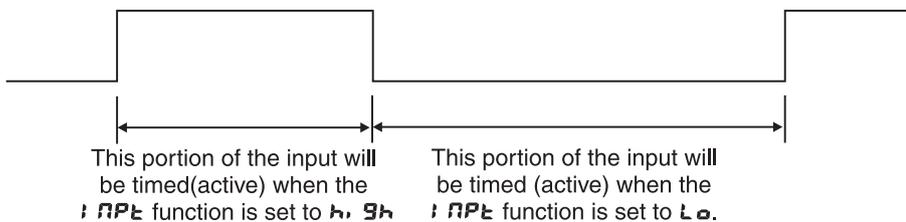
This portion of the input will be timed(active) when the ınPt function is set to hıgh.

This portion of the input will be timed (active) when the ınPt function is set to Lo.

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LD-TMR order codes for 38, 45, 57 or 58mm displays

The last section is for optional outputs (if required).
Optional outputs are factory configured.

LD-TMR-[   ]-[   ]-[   ]

Power supply
240	240VAC
110	110VAC
ACD	24-48VAC
DC	12-48VDC isolated

Display type
38R6	6 digit 38mm red LED - with front pushbuttons and alarm anunciators
38D6	6 digit 38mm red LED - with front pushbuttons and alarm anunciators, high contrast daylight viewable
38G6	6 digit 38mm green LED - with front pushbuttons and alarm anunciators, high contrast daylight viewable
38A6	6 digit 38mm amber LED - with front pushbuttons and alarm anunciators, high contrast daylight viewable
38W6	6 digit 38mm white LED - with front pushbuttons and alarm anunciators, high contrast daylight viewable
45R5	5 digit 45mm red LED - with front pushbuttons and alarm anunciators
57R4	4 digit 57mm red LED
58R4	4 digit 58mm red LED - high contrast daylight viewable
58G4	4 digit 58mm green LED - high contrast daylight viewable
58A4	4 digit 58mm amber LED - high contrast daylight viewable
58W4	4 digit 58mm white LED - high contrast daylight viewable

See separate brochures for 100 and 200mm display versions

Optional outputs
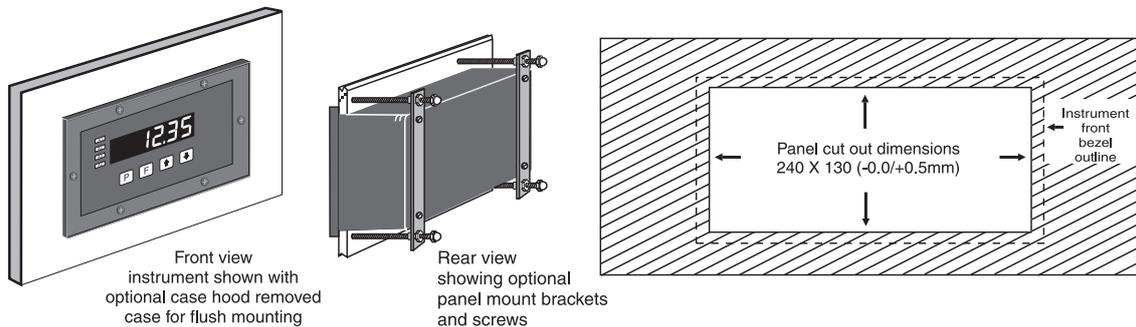|	
232	RS232 serial communications
485	RS485 serial communications - non isolated

Panel mounting

The instrument is provided with removable surface (e.g.wall) mounting tabs mounting to cover most common timing requirements. A panel mount kit is optionally available which allows the instrument to be mounted in a panel cut out. If required the instrument can be optionally supplied with the front hood removed to allow a more flush panel mount fitting.

Part number for panel mount kit: LD-MTG-PM-KIT
Part number for hood removal: LD-HOOD-REMOVAL

Front view
instrument shown with
optional case hood removed
case for flush mounting

Rear view
showing optional
panel mount brackets
and screws

Panel cut out dimensions
240 X 130 (-0.0/+0.5mm)

Instrument
front
bezel
outline

Applications/input types available with large digit display models

- Analog input, process transmitters etc. ±20mA, 4-20mA or ±2.5VDC or ±25VDC
- 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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