# Large digit displays - 20, 38, 45, 57, 58mm digit height models

# LD5-TMR and LE5-TMR multifunction timer

The LD5-TMR and LE5-TMR with the 20mm, 38mm, 45mm, 57mm & 58mm 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. LE5 model versions include Ethernet communications web page. 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 20mm high red LED (visibility to 10m)



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



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



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
- 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
- 4 configurable setpoint relays standard rated at 240VAC, 5A into a resistive load
- Panel mount kit available
- 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
- Ethernet with web page in LE5 models
- Isolated RS232/RS485 serial communications optionally available. Both RS232 and RS485 are fitted but only once at a time can be used
- The auto-brightness feature for LED displays varies the display brightness to suit the ambient light
- 2 year guarantee





Front view

180

145

155

253

Top view

240
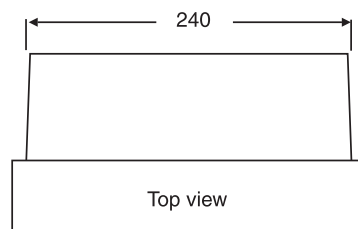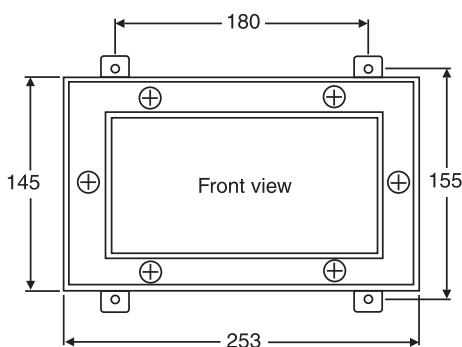
All dimensions in mm

Side view

121

48

73

130

12
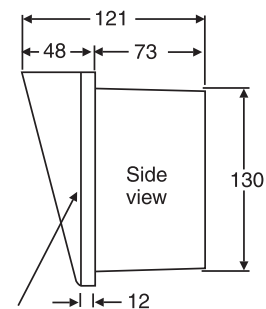
Can be ordered
with or without hood

LD5TMR3858-1.1-0

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## Specifications

| | |
|---|---|
| Timer input: | Selectable types inc: NPN, PNP, switch contact, magnetic pickup, output from TTL, CMOS, square wave, Namur |
| Reset/preset input | Voltage free switch contact or up to 24VDC signal |
| Stop input | Voltage free switch contact or up to 24VDC signal |
| Memory | Battery backed time memory |
| Resolution | 10mS when suitable display mode is selectd |
| Input Impedance | 1MΩ standard or 12kΩ in attenuated input mode |
| 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 or 12 or 24VDC, pushbutton selectable selectable **(50mA max.)** |
| Ambient temp: | -10°C to 60°C |
| Humidity: | 5% to 95% non condensing |
| | See separate 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): | 4 x relays, (1 x form C, 3 x 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 |

## 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$20mA, 4-20mA or $\pm$2.5VDC or $\pm$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 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.

LD5TMR3858-1.1-0

## LD5-TMR order codes for 20, 38, 45, 57 or 58mm displays

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

```
[      ] - [ TMR ] - [      ] - [      ] - [      ]
```

**Main input board type**

LD5 · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · Input board with no Ethernet, no Web page
LE5 · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · Input board with Ethernet fitted, Web page

**Power supply**

ACH · · · · · · · · · · · · · · · · · · · · · · · 240VAC/110VAC
ACL · · · · · · · · · · · · · · · · · · · · · · · 24 to 48VAC
DC · · · · · · · · · · · · · · · · · · · · · · · 12-48VDC isolated
DCN · · · · · · · · · · · · · · · · · · · · · · · 24V non isolated

**Display type**

20R6 · · · · · · · · · · 20mm 6 digit red LED - with front pushbuttons and alarm anunciators
38R6 · · · · · · · · · · 38mm 6 digit red LED - with front pushbuttons and alarm anunciators
38D6 · · · · · · · · · · 38mm 6 digit red LED - with front pushbuttons and alarm anunciators, high contrast daylight viewable
38G6 · · · · · · · · · · 38mm 6 digit green LED - with front pushbuttons and alarm anunciators, high contrast daylight viewable
38A6 · · · · · · · · · · 38mm 6 digit amber LED - with front pushbuttons and alarm anunciators, high contrast daylight viewable
38W6 · · · · · · · · · · 38mm 6 digit white LED - with front pushbuttons and alarm anunciators, high contrast daylight viewable
45R5 · · · · · · · · · · 45mm 5 digit red LED - with front pushbuttons and alarm anunciators
57R4 · · · · · · · · · · 57mm 4 digit red LED
58R4 · · · · · · · · · · 58mm 4 digit red LED - high contrast daylight viewable
58G4 · · · · · · · · · · 58mm 4 digit green LED - high contrast daylight viewable
58A4 · · · · · · · · · · 58mm 4 digit amber LED - high contrast daylight viewable
58W4 · · · · · · · · · · 58mm 4 digit white LED - high contrast daylight viewable

**Optional outputs**

S · · · · · · · · · · · · · · · · · RS232/RS485 serial communications - isolated
U · · · · · · · · · · · · · · · · · USB communications port - isolated
SU · · · · · · · · · · · · · · · · · RS232/RS485 plus USB port - isolated
SRRRR · · · · · · · · · · RS232/RS485 serial communications plus 4 extra relays
URRRR · · · · · · · · · · USB port plus 4 extra relays
SURRRR · · · · · · · · · RS232/RS485 plus USB port plus 4 extra relays
I · · · · · · · · · · · · · · · · · 4-20mA analog retransmission 12 bit - isolated
A · · · · · · · · · · · · · · · · · 4-20mA, 0-1VDC or 0-10VDC analog retransmission 16 bit - isolated
IRRRR · · · · · · · · · · 4-20mA analog retransmission 12 bit - isolated plus 4 extra relays
ARRRR · · · · · · · · · · 4-20mA, 0-1V or 0-10VDC output 16 bit - isolated plus 4 extra relays
RRRR · · · · · · · · · · · 4 extra relays
II · · · · · · · · · · · · · · · · · Dual 4-20mA output 12 bit - isolated
AA · · · · · · · · · · · · · · · · · Dual 4-20mA output plus RS485 serial communications - isolated

Ethernet and web page cannot be retrofitted to existing LD5 models.
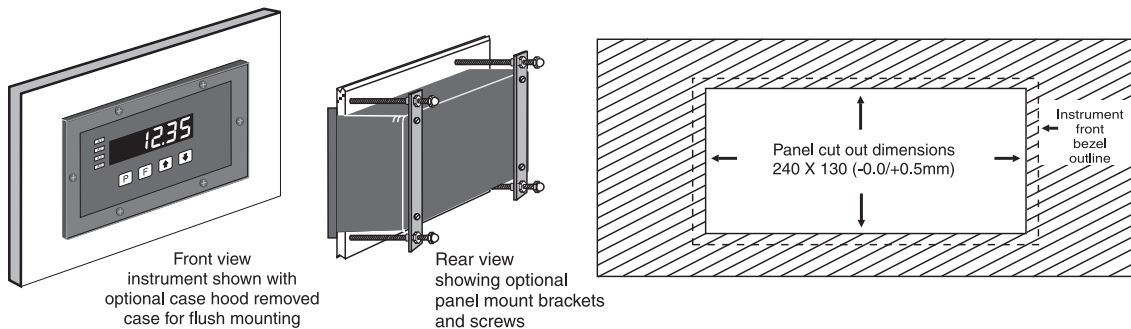
## Panel mounting

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

LD5TMR3858-1.1-0