

Large Digit Display – 200mm display height

LD-RTC real time clock



Features

- Visible to 100m
- 12 hour, 24 hour or month and day display
- Internal clock chip or 50Hz or 60Hz mains, optional high accuracy crystal or optional GPS synchronisation
- Pushbutton scaling and setup
- Two alarm relays supplied as standard
- Relays can be set for day/time switch on and duration operation and for normally open or normally closed operation. Each relay can be allocated more than one alarm period (up to 32 total alarm periods can be set).
- Remote input to perform special functions e.g. setpoint only access or security lockout.
- Rugged, weatherproof, IP65 rated housing
- 2 year guarantee
- Master/slave operation using optional serial communications
- Special version available to accept temperature sensor input for temperature/time alternating display
- The auto-brightness feature for LED displays varies the display brightness to suit the ambient light.

Description

This instrument may be used as a 12 or 24 hour clock or may be set to display day/month/year.

Clock synchronisation can be set to be from either the unit's internal clock generator, the 50Hz mains frequency, the 60Hz mains frequency, an optional high accuracy 10MHz crystal or optional GPS satellite receiver.

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



Applications

The LD-RTC with the 200mm display will be ideal for applications where a real time display needs to be visible at distances up to 100m. The alarm settings (up to 32 can be set) enhance the usefulness of the product. The LD-RTC can be fitted with an optional temperature display and the display will alternate between the two parameters.

LDRTC200-2.3-0

AMALGAMATED INSTRUMENT CO PTY LTD

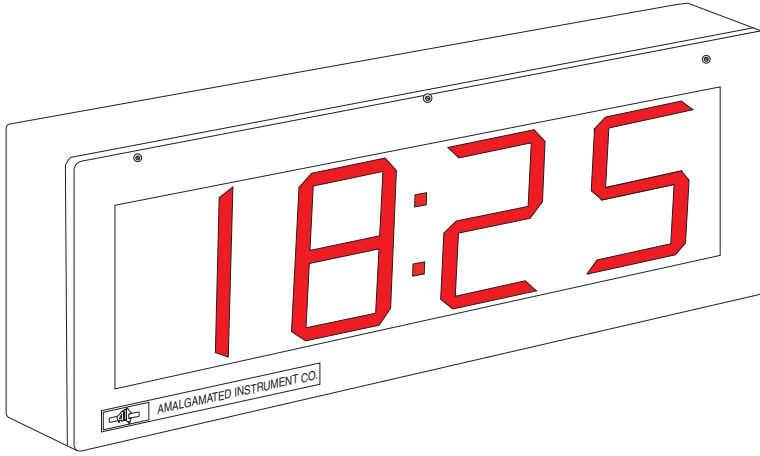
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Dimensions



Length	850mm
Height	360mm
Depth	155mm
Weight	13kg (packed)

Technical Specifications

Retention	Display will blank during periods of no power - battery backed clock chip keeps the time during those periods
Accuracy:	50 or 60Hz mains sync. accurate to mains Internal clock chip ±30 seconds per month Optional high accuracy crystal ±3 seconds per month GPS - accurate to GPS system ±0.1 sec
Microprocessor	MC68HC11 CMOS
Ambient temp	-10°C to 60°C
Humidity	5% to 95%
Outputs	2 x setpoint relays, form A, rated 5A at 240VAC (resistive load)
Power Supply	See order code table (type is factory configured)
Power Consumption	AC supply: 15VA max, DC supply: depends on supply voltage, typically 500mA (2A peak) for 24VDC using non isolated DC supply

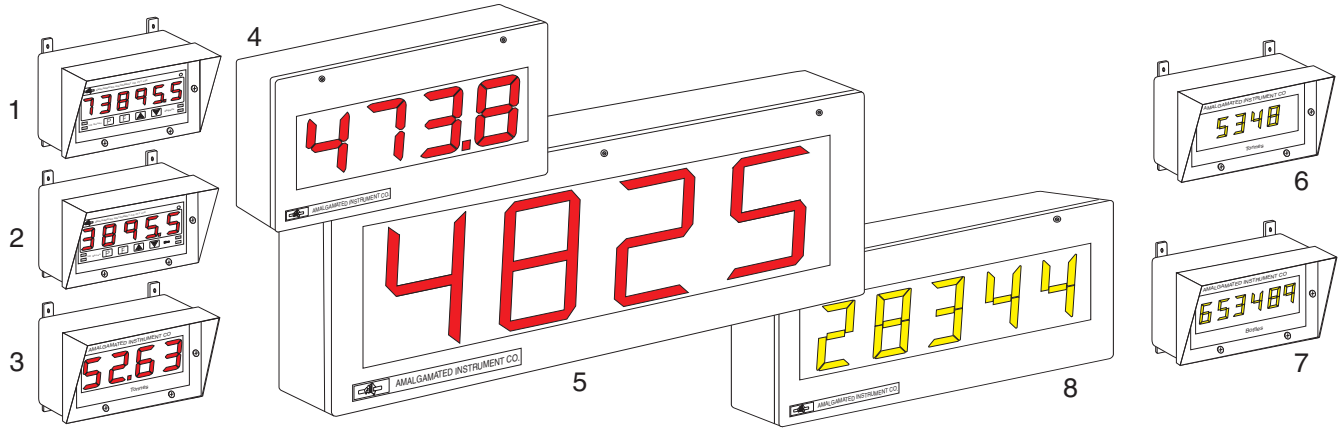
Options

Option Code	Description
LD-OPT-TR-232	RS232 serial comms, non-isolated
LD-OPT-TR-485	RS485 serial comms, non-isolated
LD4-2004-SHROUD	Shroud for 200R4 displays

Order Codes

Order Code	Display	Supply Voltage
LD-RTC-ACH-200R4	4 digit LED	110 or 240VAC
LD-RTC-ACL-200R4	4 digit LED	24, 32, 42 or 48VAC
LD-RTC-DCN-200R4	4 digit LED	24VDC non-isolated
LD-RTC-DC-200R4	4 digit LED	12-24VDC isolated

Displays available in Large Digit Series



No.	LED digit size	No of digits	No.	"FLIP" digit size	No of digits
1	38mm (1.5")	6	6	39mm (1.5") - selected models	4
2	45mm (1.8")	5	7	39mm (1.5") - selected models	6
3	57mm (2.3")	4	8	100mm (4")	4, 5 and 6
4	100mm (4")	4 and 6	Other sizes and styles of display are under development		
5	200mm (8")	4			

Optional shroud

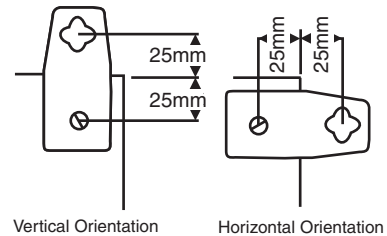


The shroud for the 4 digit 200mm display is shipped as one piece.
The overhang of the shroud is 150mm.
The shrouds are zinc coated steel powder coated to match the powder coated, zinc coated steel display enclosures.

Other applications available with large digit displays

- Analog input, process transmitters etc. 4-20mA, 0-1VDC, 0-10VDC, slidewire
- Rate, total, count, grand total from pulse input
- Temperature - RTD, thermocouple, 4-20mA
- Weighing - mV/V ratiometric loadcells
- Pressure measurement - mV/V ratiometric or analog transducers
- Liquid level measurement - mV/V ratiometric or analog transducers
- Serial input - RS232, RS485, Current loop
- Synchronous Serial Interface (SSI)
- Binary, BCD or Gray Code input
- Real Time clock with alarms
- Multifunction timer - elapsed time, stopwatch, etc.
- Time and Temperature

Mounting brackets



Four mounting brackets are included with all models. The metal case 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 10mm 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.