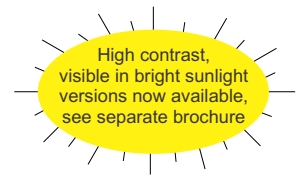


Large Digit Display – 200mm display height

LD-RTC real time clock



Description

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 periods can be set) enhance the usefulness of the product. The LD-RTC can be fitted with an optional temperature sensor and input board and the display will alternate between the time and temperature.

This instrument may be used as a 12 or 24 hour clock or may be set to display day/month/year. With optional serial communications fitted a number of these clocks can be connected together in master/slave configuration.

Clock synchronisation can be set to be from either the units internal clock generator, the 50Hz mains frequency, the 60Hz mains frequency, an optional high accuracy 10MHz crystal or optional GPS satellite receiver. An automatic daylight saving time adjustment facility is provided.

The 200mm LED digit displays are housed in rugged, IP65 rated, powder coated zinc coated steel enclosures (stainless steel available to special order).

Red, Green, Amber or White LED versions available.

Features

- 4 digit 200mm Red LED
Green or Amber available to special order in either standard or high contrast version
- Visible from 100 metres
- 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
- Master/slave operation using optional serial communications
- Special version available to accept temperature sensor input for temperature/time alternating display
- RS232 or RS485 serial communications optionally available
- Automatic daylight saving time adjustment
- 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, 57mm and 100mm display models



LDRTC200-2.9-0

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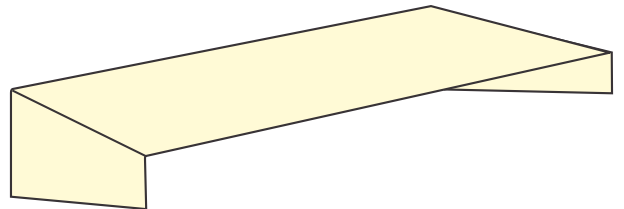
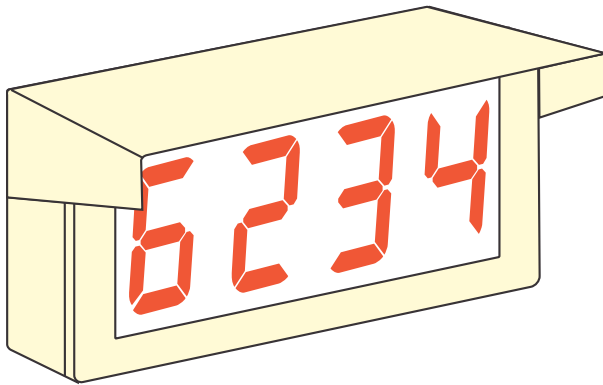
Specifications

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 display
Microprocessor	MC68HC11 CMOS
Ambient temp	-10°C to 60°C
Humidity	5% to 95%
Display types:	200mm 4 digit red LED (green, amber or white available to special order) in standard brightness or high contrast version See separate LD-RTC brochures for other display sizes
Power supply:	See order code table (type is factory configured)
Power usage:	AC supply 50VA max, DC supply typically 1.3A at 24VDC for LED displays
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. Up to 32 alarm periods can be programmed by setting start time and duration
Environmental rating:	IP65
Weight:	13kg
Dimensions:	850 x 360 x 155mm

Optional shrouds

Shroud kits for 200mm displays are made from a single piece of powder coated zinc coated steel to match the metal enclosures.

The overhang of the shroud is 150mm.



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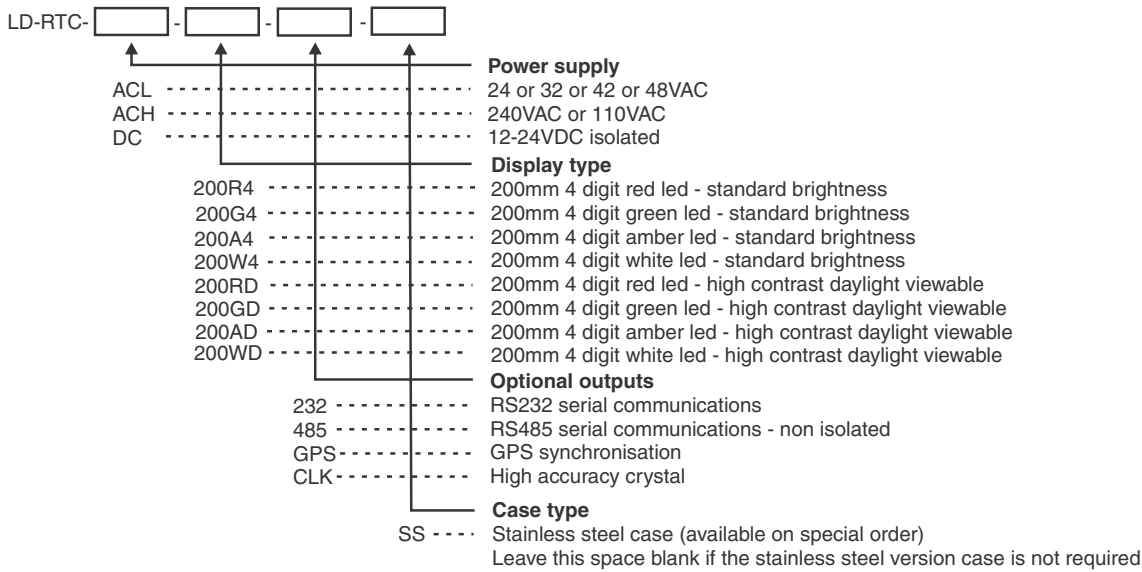
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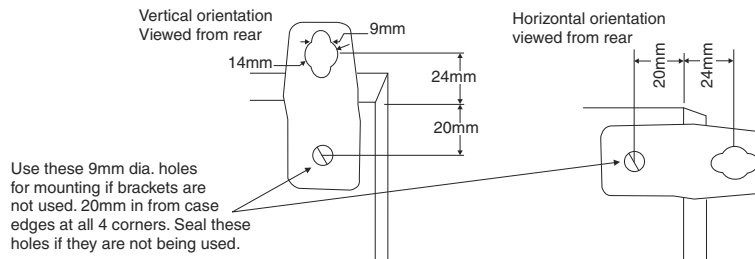
LD-RTC order codes for 200mm displays

Substitute RTT for RTC in the part number if a temperature plus time display is required.
 Note the LD-RTT model requires an LM335 temperature sensor which can be separately supplied.
 The last two sections are for optional items (if required). Optional outputs are factory configured.



Mounting brackets

The 200mm 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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