

# Large Digit Display – 200mm display height LD-232, 485, CL for serial input



## Features

- 4 x 200mm LED  
- visibility rating to 100m
- Models for RS232, RS485 or 20mA serial current loop (ASCII or Modbus RTU)
- Arithmetic mode - allows arithmetic operation from up to 4 sources of same manufacture
- Selectable 300 to 38400 baud rate
- Selectable odd, even or no parity
- Selectable 7 or 8 bit data
- One, two or three address characters, allows multiple displays to be connected using RS485 with different values sent to displays with different addresses
- Flexible setup, allows display from a wide range of sources
- High brightness LED or electromagnetic display type options
- Automatic or user selectable decimal point position (LED displays only)
- Pushbutton setup
- Two alarm/control relay outputs (5A). The relays can be configured with high and/or low trip points and for normally open or normally closed operation
- Trailing alarm mode, allows second relay to trail first relay by a programmable amount
- Rugged, weatherproof, IP65 rated housing
- Remote input to perform special functions e.g. brightness level switching, high/low memory, peak hold, display hold, tare, zero, setpoint only access or security lockout 2 year guarantee
- The auto-brightness feature for LED displays varies the display brightness to suit the ambient light conditions.

## Description

The LD-232, 485 and CL range of large digit displays is designed for use with a serial input. The instruments can be configured recognise and edit a data stream to ignore unwanted information (start of text, end of text, byte count data etc).

Setup of the instrument is achieved without the use of special tools.

Some jumpers are set within the instrument to define the input type but calibration, alarm settings, decimal point etc are all carried out using the push buttons on the main board of the instrument

## Applications

The LD-232, LD-485 and LD-CL with the 200mm LED or "flip" digit displays will be ideal for applications where a display must be visible up to a distance of 100m.

The displays can be used wherever a serial signal is available and offers the capability of displaying numeric characters and a range of alpha characters and special characters limited by the flexibility of a 7 segment display.



LDSERL200-2.3-0

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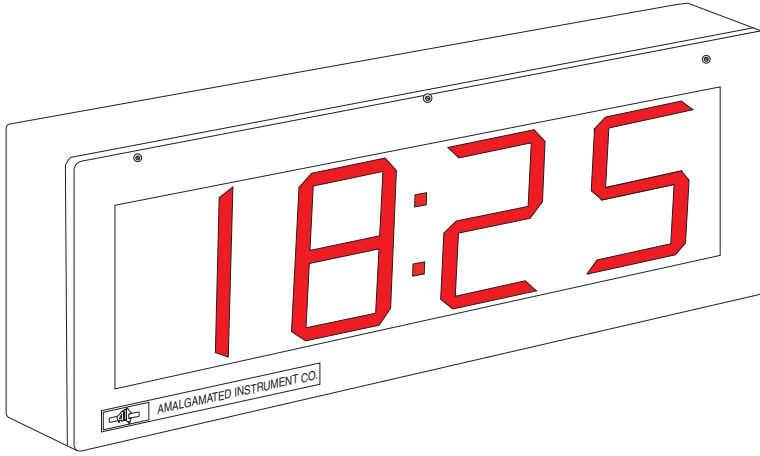
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## Dimensions



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

## Technical Specifications

Input types	RS232, RS485 or 20mA serial current loop models available (input type is factory configured)
Baud rate	300, 600, 1200, 2400, 4800, 9600, 19200 or 38400 baud (programmable)
Microprocessor	MC68HC11 CMOS
Ambient temperature	-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

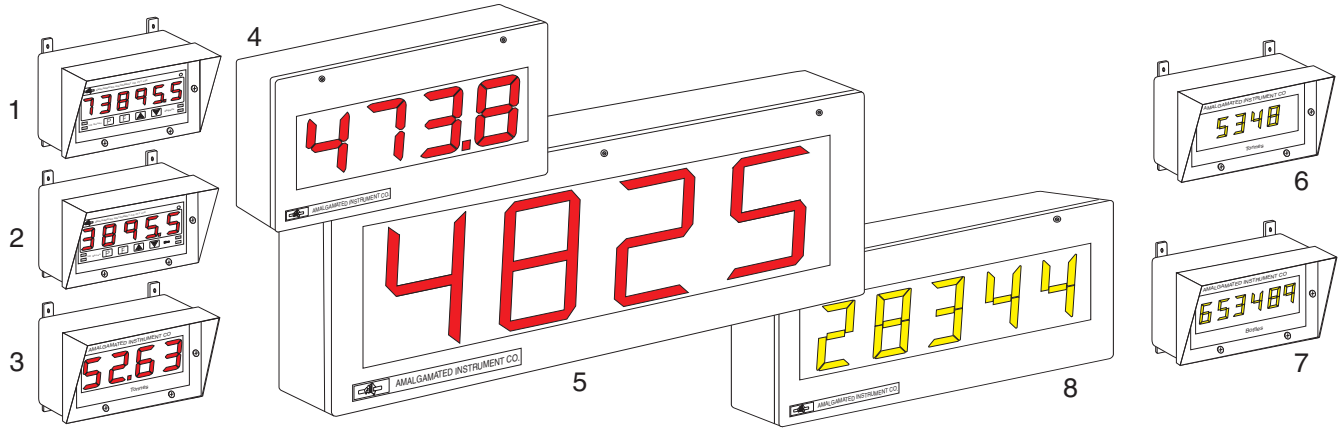
## Order Codes

Order Code	Display	Supply Voltage
NOTE: XXX below represents the input type For <b>RS232</b> input specify LD-232, For <b>RS485</b> input specify LD-485 For <b>20mA current loop</b> input specify LD-CL		
LD-XXX-ACH-200R4	4 digit LED	110 or 240VAC
LD-XXX-ACL-200R4	4 digit LED	24, 32, 42 or 48VAC
LD-XXX-DCN-200R4	4 digit LED	24VDC non isolated
LD-XXX-DC-200R4	4 digit LED	12-24VDC isolated

## Options

Option Code	Description
LD4-2004-SHROUD	Shroud for 200R4 displays

## 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

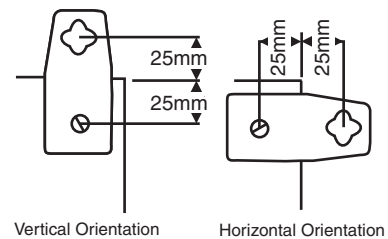


The shroud for the 4 digit 200mm display is shipped as one piece.  
The overhang of the shroud is 150mm.  
The shrouds are zinc coated steel powder coated to match the powder coated, zinc coated steel display enclosures.

## 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.