

# Large Digit Display – 200mm display height LD-SS Synchronous Serial Interface (SSI)



## Features

- 4 x 200mm LED  
- visibility rating to 100m
- Synchronous Serial Interface (SSI) input
- Displays in engineering units e.g. mm
- Pushbutton scaling and setup
- Digital filter, improves stability
- External input to provide one of the following special functions: peak hold, display hold, peak high/low memory, select second set of scaling values, preset, two level brightness switching, setpoint only access or security lockout
- Can be used via model RM-BC or RM4-BC converters to display from normal Binary/BCD/Gray code sources
- Choice of normal (600kHz) clock rate or low (90kHz) clock rate for long cable runs
- 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. Relay trip time and reset delay times can also be set if required
- Rugged, weatherproof, IP65 rated housing
- 2 year guarantee
- The auto-brightness feature for LED displays varies the display brightness to suit the ambient light conditions.

## Description

The LD-SS range of large digit displays is designed for use with a Synchronous Serial Input (SSI). This input type can be configured as binary or Gray Code coded.

Setup of the instrument is achieved without the use of special tools. Calibration, alarm settings, decimal point etc are all carried out using the push buttons on the main board of the instrument. The 100mm displays are housed in rugged, powder coated zinc coated steel enclosures with an IP65 environmental rating.

## Applications

The LD-SS with the 200mm high LED 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.



LDSS200-2.2-0

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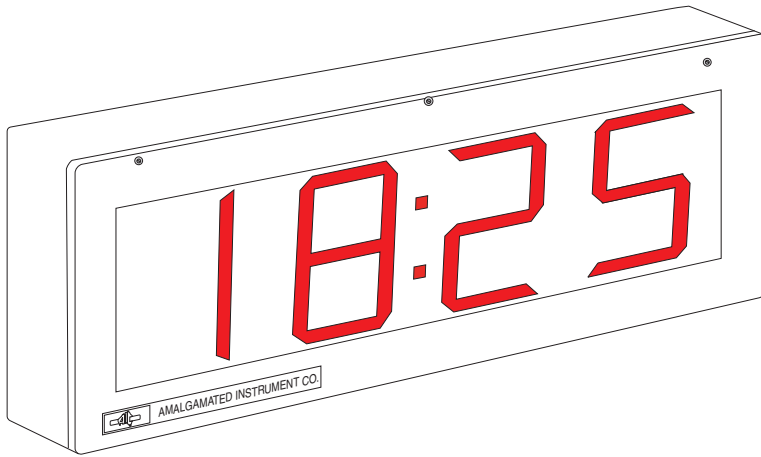
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## Dimensions



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

## Technical Specifications

Input types	SSI - Synchronous Serial Interface (binary or Gray Code coded SSI input, programmable) up to 31 bits
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

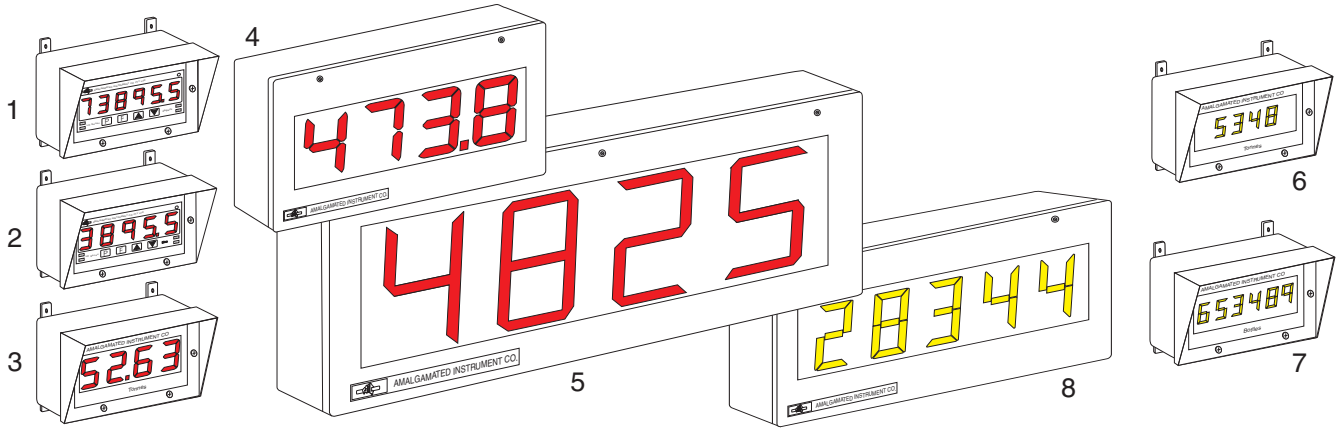
## Order Codes

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

## Options

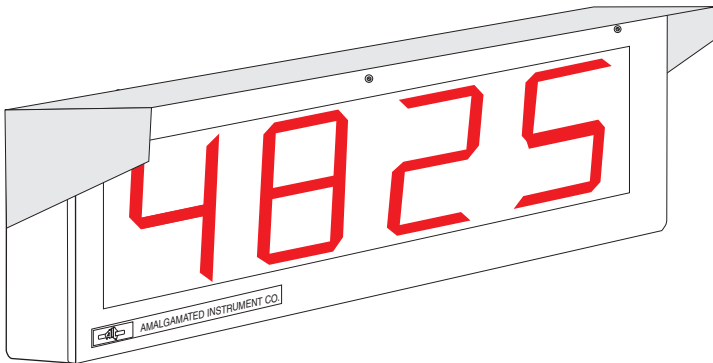
Option Code	Description
LD-OPT-TR-232	RS232 serial comms, non-isolated
LD-OPT-TR-485	RS485 serial comms, non-isolated
LD4-2004-SHROUD	Shroud for 200R4 displays

## 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

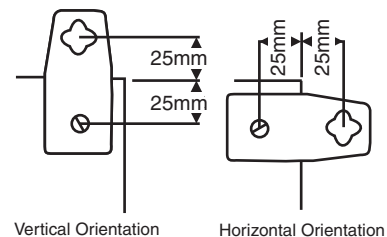


The shroud for the 4 digit 200mm display is shipped as one piece.  
The overhang of the shroud is 150mm.  
The shrouds are zinc coated steel powder coated to match the powder coated, zinc coated steel display enclosures.

## 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.