Large Digit Display – 200mm digit height
LD-232, LD-485 or LD-CL serial input

High contrast, visible in bright sunlight versions now available, see separate brochure
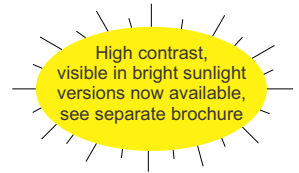
Description

The LD-232, LD-485 and LD-CL range of large digit displays is designed for use with a serial input where viewing distances up to 100m are required. The instruments can be configured recognise and edit a data stream to ignore unwanted information.

Versatile operation modes:

- Direct display - display from ASCII or Modbus RTU data e.g. slave display operation.

- Poll mode - display sends a poll command of up to 8 characters to an external device to request display data.

- Arithmetic mode - display performs arithmetic operations on values from up to 8 external AIC instruments e.g. add, highest, average etc. (RS485 only if more than one external device is used).

- Scanning mode - display polls up to 8 external AIC instruments and displays them sequentially.

- Comma separated mode - display shows sequential values from a string using comma separation between values.

- NMEA mode - display from device with NMEA serial string e.g. wind sensor.

Features

- Visible from 100 metres
- 4 digit 200mm Red LED (Green, Amber or White available to special order)
- Models for RS232 or RS485 or Serial current loop inputs
- Simple ASCII input modes for display of numbers and certain Alpha characters
- Arithmetic mode allows inputs from up to 8 other devices from the same manufacturer with versatile arithmetic operations being used to produce an arithmetic result.
- NMEA mode for compatible meteorological sensors
- Scanning and comma separated modes for sequential display from multiple instruments or comma separated strings of multiple values
- Modbus mode for input from Modbus RTU
- IP65 rated wall mount enclosure, powder coated steel standard, stainless steel optional
- 2 configurable setpoint relays standard rated at 240VAC, 5A into a resistive load, form C
- Pushbutton setup and scaling
- Remote inputs can be configured to one of a wide range of functions including zero, display hold, peak hold, etc.
- 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 200mm display models

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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 (selectable)
Microprocessor	MC68HC11 CMOS
Ambient temp	-10°C to 60°C
Humidity	5% to 95%
Display:	200mm 4 digit red LED (green, amber or white available to special order) with auto brightness capability in either standard brightness or high contrast version
	See separate brochures for other display sizes
Power supply:	See order code table (type is factory configured)
Outputs (standard):	2 x relays, form C, rated at 240VAC, 5A resistive
Relay action:	Programmable N.O. or N.C.
Environmental rating:	IP65
Size:	850 x 360 x 155mm
Weight:	13kg
Power Supply:	240/110VAC 50/60Hz or 48/42/32/24VAC or DC isolated supply 12 to 48VDC or 24VDC non isolated supply (type is factory configured)
Power Consumption: (standard brightness)	AC supply: 50VA max, DC supply: depends on supply voltage, typically 1.3A for 24VDC

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.
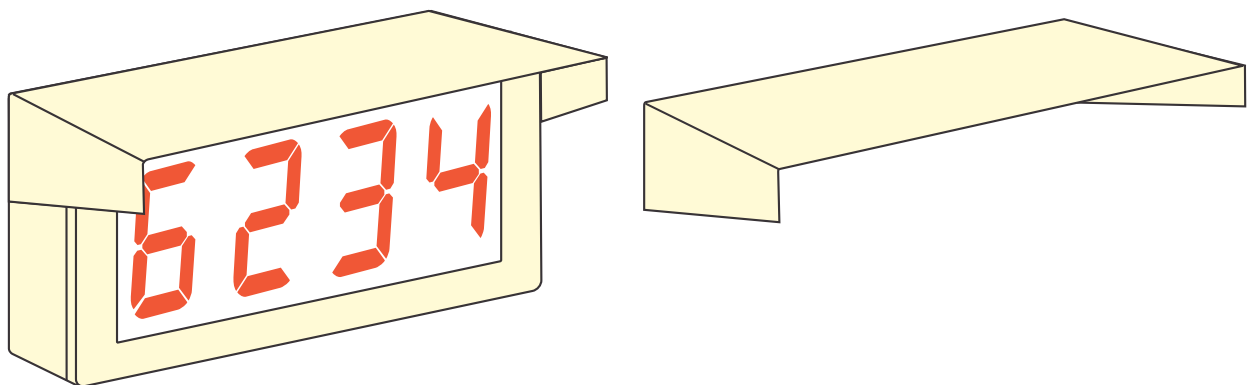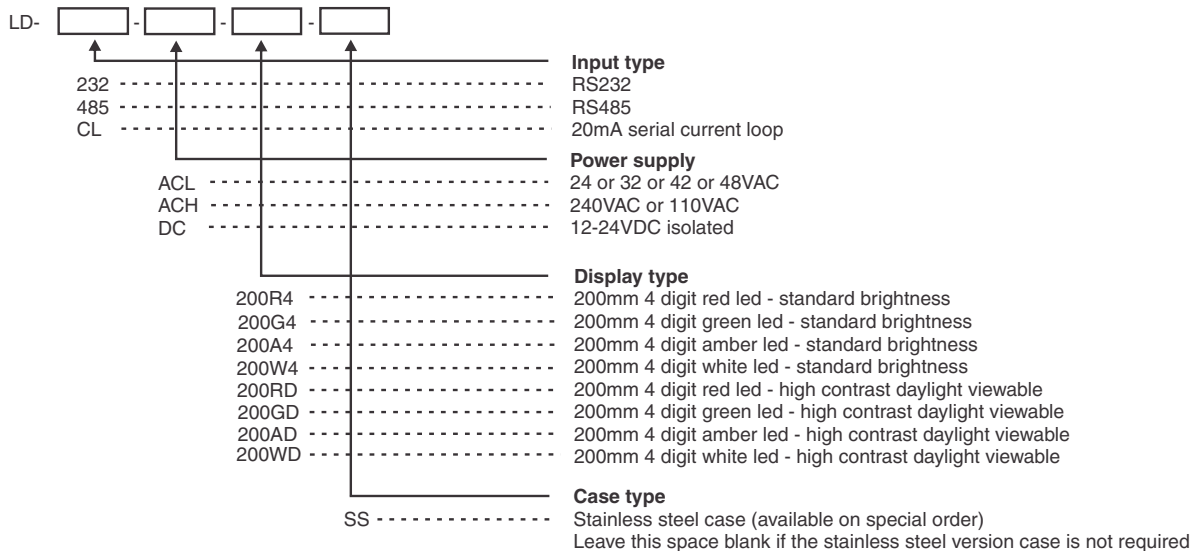
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Order codes for 200mm serial input displays

LD- ☐ - ☐ - ☐ - ☐

Input type
232	RS232
485	RS485
CL	20mA serial current loop

Power supply
ACL	24 or 32 or 42 or 48VAC
ACH	240VAC or 110VAC
DC	12-24VDC isolated

Display type
200R4	200mm 4 digit red led - standard brightness
200G4	200mm 4 digit green led - standard brightness
200A4	200mm 4 digit amber led - standard brightness
200W4	200mm 4 digit white led - standard brightness
200RD	200mm 4 digit red led - high contrast daylight viewable
200GD	200mm 4 digit green led - high contrast daylight viewable
200AD	200mm 4 digit amber led - high contrast daylight viewable
200WD	200mm 4 digit white led - high contrast daylight viewable

Case type
SS	Stainless steel case (available on special order)
	Leave this space blank if the stainless steel version case is not required

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.

Vertical orientation
Viewed from rear
9mm
14mm
24mm
20mm

Use these 9mm dia. holes for mounting if brackets are not used. 20mm in from case edges at all 4 corners. Seal these holes if they are not being used.

Horizontal orientation
viewed from rear
20mm
24mm
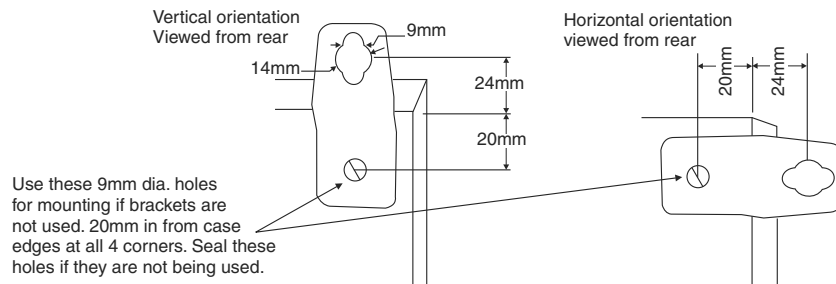
Applications/input types available with large digit display models

- Analog input, process transmitters etc. ±20mA, 4-20mA or ±2.5VDC or ±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, 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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