Large Digit Display – 200mm digit height LD5-TR and LE5-TR ratemeter/totlaliser

The LD5-TR and LE5-TR with 200mm displays are be ideal for applications where rate and total indications need to be visible at a distance. The instrument can be used in rate, total or rate plus total modes with comprehensive alarm functions. LE5 model versions include Ethernet communications, datalogger memory and web page. High contrast versions, viewable even in bright sunlight are available in red, green, amber or white.

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

Description

The 200mm digit height LD5-TR and LE5-TR displays are ideal for applications where rate or total need to be visible from a distance (rated for up to 100 metres).

A pulse input from an encoder, switch etc. is required for this display. The display can be scaled to display in engineering units such as RPM, Litres, Litres/min etc. The display can be configured for rate, total (counting etc) or both and will also keep a grand total in totaliser mode which uses a separate reset. The display can be made to count up or to count down from a preset value.

Remote input connections are available to reset display to zero, to restart display at a preset value, and to hold the display or show the peak reading (peak hold) amongst other functions. The totaliser memory is backed up by an onboard battery.

Pusbhutton settings are to define the input type, scaling, alarm settings, decimal point etc.

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

Certified System Quality ISO 9001 SAI GLOBAL

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EMC COMPLIANT

Features

- Visible from 100 metres
- Standard brightness red LED (Green, Amber or White available to special order)
- High contrast daylight viewable versions now available in red, green, amber or white LED
- Rate and/or total display from pulse input
- Totaliser can count up or down
- Up to 100kHz input frequency
- "Timeout" function for very low frequency input
- Compatible with a wide range of pulse output sensor types
- IP65 rated wall mount enclosure, powder coated steel standard, stainless steel optional
- 4 configurable setpoint relays standard
- Remote reset or preset
- Pushbutton setup and scaling
- Remote inputs can be configured to one of a wide range of functions including zero, display hold, peak hold, etc.
- Programmable digital filter for rate display
- Ethernet with 8MB data logger and web page on LE5 models
- Isolated RS232/RS485 serial communications optionally available. Both RS232 and RS485 are fitted but only one at a time can be used
- 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, 57, 58mm and 100mm models

LD5TR200-1.1-0

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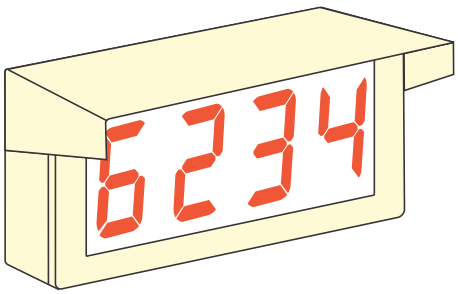
Specifications

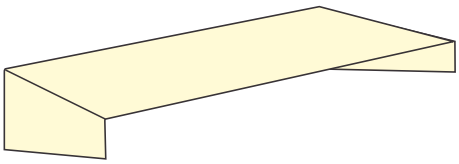
Input:	Selectable types inc: NPN, PNP, switch contact, magnetic pickup,
	output from TTL, CMOS, square wave, Namur
Reset/preset input	Voltage free switch contact or up to 24VDC signal
Memory	Totaliser memory ferro ram stored, retention typically 45 years with no power
	Data logger memory stored in flash memory, retention typically 100 years with no power (LE5 model only)
Display update:	4 per second
Input Impedance	1MΩ standard or 12kΩ in attenuated input mode
Input frequency:	100kHz max. in high frequency mode
Sensor supply	5 VDC or 12 or 24VDC, pushbutton selectable **(50mA max.)**
Ambient temp	-10°C to 60°C
Humidity	5% to 95%
Display types:	200mm 4 digit red LED
	200mm 4 digit red, green, amber or white high contrast LED
	See separate brochures for other display sizes
Power supply:	See order code table (type is factory configured)
Power usage:	AC supply 50VA max,
(standard brightness)	DC supply typically 1.3A at 24VDC for displays
	(plus current for sensor if on board supply is used)
Outputs (standard):	4 x relays, (1 x form C, 3 x form A), rated at 240VAC, 5A resistive
Outputs (optional):	See order code table (type is factory configured)
Relay action:	Programmable N.O. or N.C.
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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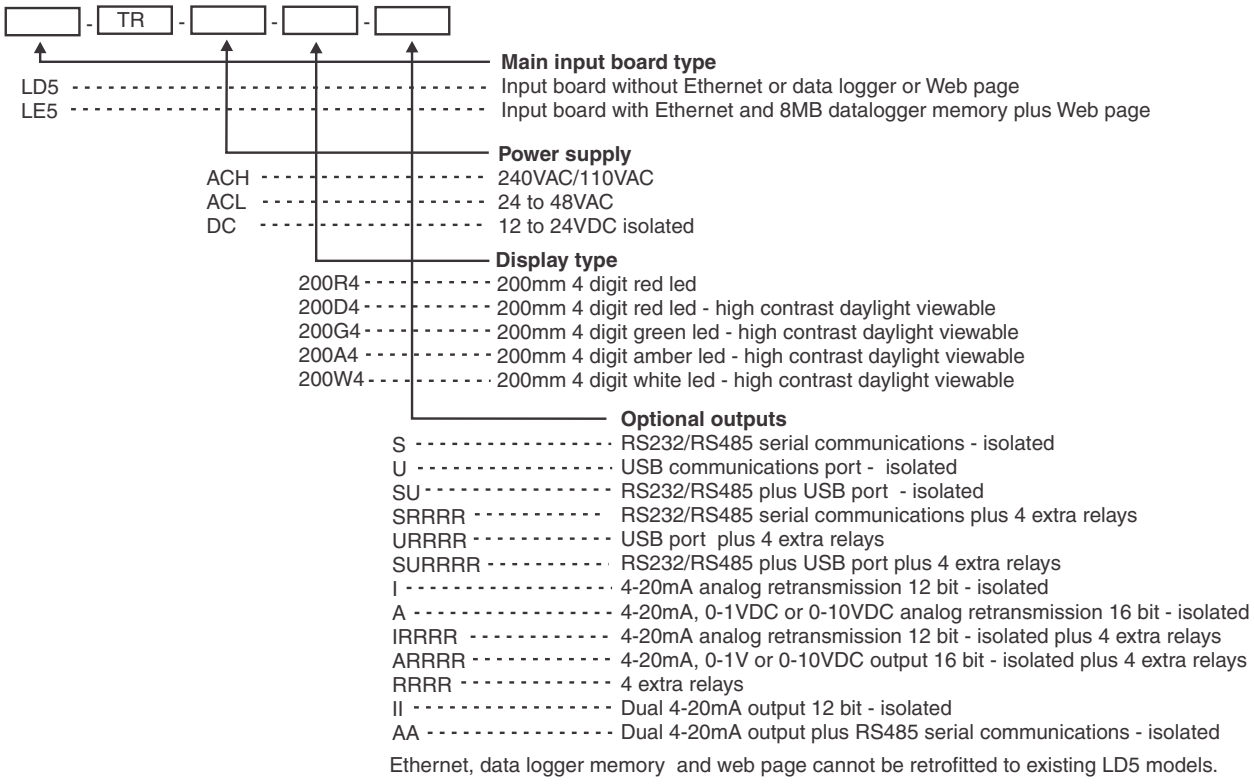
Order codes for 200mm displays

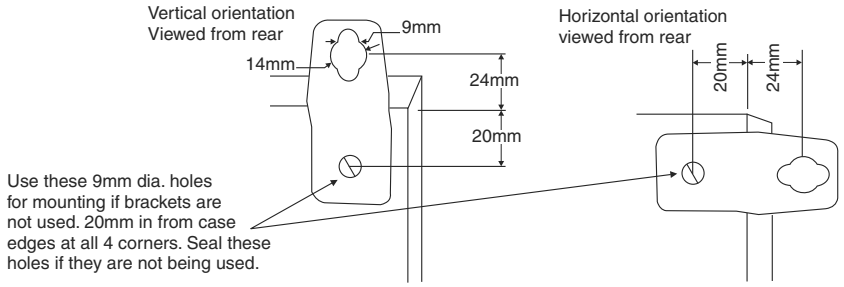
The last two sections are for optional items (if required).
Optional outputs are factory configured.



Ethernet, data logger memory and web page cannot be retrofitted to existing LD5 models.

Mounting brackets

The 100mm 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.



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