

# Large Digit Display – 100mm digit height

## LD-IVT Integrating Totaliser - Analog input

DCmA, DCmV, DCV or slidewire input

The LD-IVT with the 100mm displays will be ideal for those applications where totals from analog inputs e.g. flow total for example, need to be visible from a distance up to 50m. The integrating totaliser formula used allows rate and total to be scaled. The default display can be set to rate or total.

### Display examples



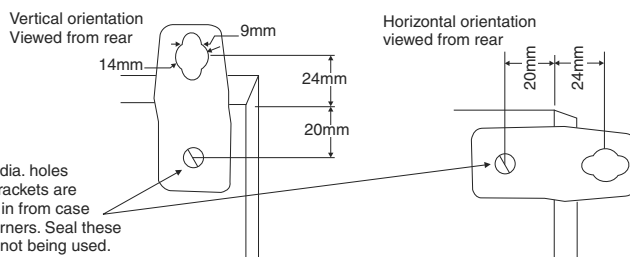
4 digit 100mm Red LED



4 digit 100mm Yellow Flip Digit (Stainless Steel case)

### 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.



### Features

- Input from  $\pm 20\text{mA}$ , 4-20mA,  $\pm 2.5\text{VDC}$ ,  $\pm 25\text{VDC}$  or Slidewire (0-1k $\Omega$  to 0-1M $\Omega$ ) potentiometer
- 4 digit 100mm Red LED
- 6 digit 100mm Red LED
- 4 digit 100mm Yellow Electromagnetic
- 5 digit 100mm Yellow Electromagnetic
- 6 digit 100mm Yellow Electromagnetic
- IP65 rated wall mount enclosure, powder coated steel standard, stainless steel optional
- Dual 4-20mA analog retransmission model available
- 4 configurable setpoint relays standard rated at 240VAC, 5A into a resistive load, form C. Relays 1 and 2 may be configured for either setpoint or PI control
- Pushbutton setup and calibration, display can be scaled without special tools
- 2 rate calibration memories can be stored
- 3 configurable remote inputs as standard
- Remote inputs can be configured to one of a wide range of functions including zero, tare, peak hold, etc.
- Programmable digital filter
- RS232 or RS485 serial communications optionally available
- Inbuilt data logger optionally available
- 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

Quality  
Endorsed  
Company



LDIVT100-4.0-0

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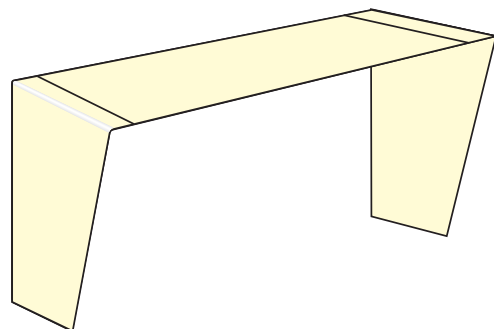
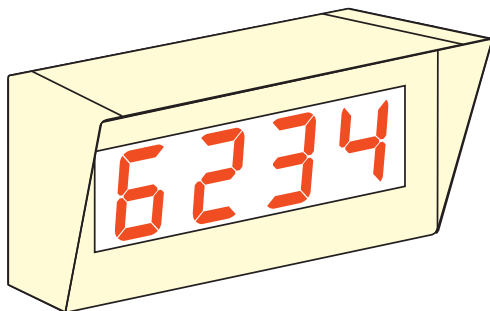
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## Specifications

Input:	$\pm 20\text{mA}$ , 4-20mA, $\pm 2.5\text{VDC}$ , $\pm 25\text{VDC}$ or Slidewire (0-1k $\Omega$ to 0-1M $\Omega$ )
Input impedance	64 $\Omega$ nominal for 4 to 20mA/20mA range and 1M $\Omega$ on DC voltage ranges
Accuracy:	Better than 0.1% of full scale (alarms and display) when calibrated
Memory:	Battery backed totaliser memory
Sample rate:	5 samples/second
Display update:	4 times per second
ADC resolution:	1 in 32,000
ADC conversion:	Sigma delta
Microprocessor:	MC68HC11 CMOS
Ambient temp:	-10°C to 60°C
Humidity:	5% to 95% non condensing
Display types:	100mm 4 digit red LED 100mm 6 digit red LED 100mm 4 digit yellow electromagnetic (flip digit) 100mm 5 digit yellow electromagnetic (flip digit) 100mm 6 digit yellow electromagnetic (flip digit) See separate LD-IV brochures for other display sizes
Power supply:	See order code table (type is factory configured)
Power usage:	AC supply 15VA max, DC supply typically 300mA at 24VDC for LED displays (1A peak), typically 1A for electromagnetic displays (4A peak) (plus current drawn from transmitter supply)
Outputs (standard):	4 x relays, form C, rated at 240VAC, 5A resistive Relays 1 and 2 configurable for setpoint or PI control
Outputs (optional):	See order code table (type is factory configured)
Relay action:	Programmable N.O. or N.C.
Environmental rating:	IP65
Weight:	4 digit displays 10.5kg, 5 digit displays 12kg, 6 digit displays 13.5kg
Dimensions:	4 digit displays 450 x 250 x 155mm 5 digit displays 520 x 250 x 155mm 6 digit displays 650 x 250 x 155mm

## Optional shrouds

Shroud kits for 100mm displays consist of 2 side panels, a top plate (length is model dependant) and fixing hardware. The overhang of the shroud is 90mm for all models. The shrouds are of powder coated zinc coated steel to match the metal enclosures.



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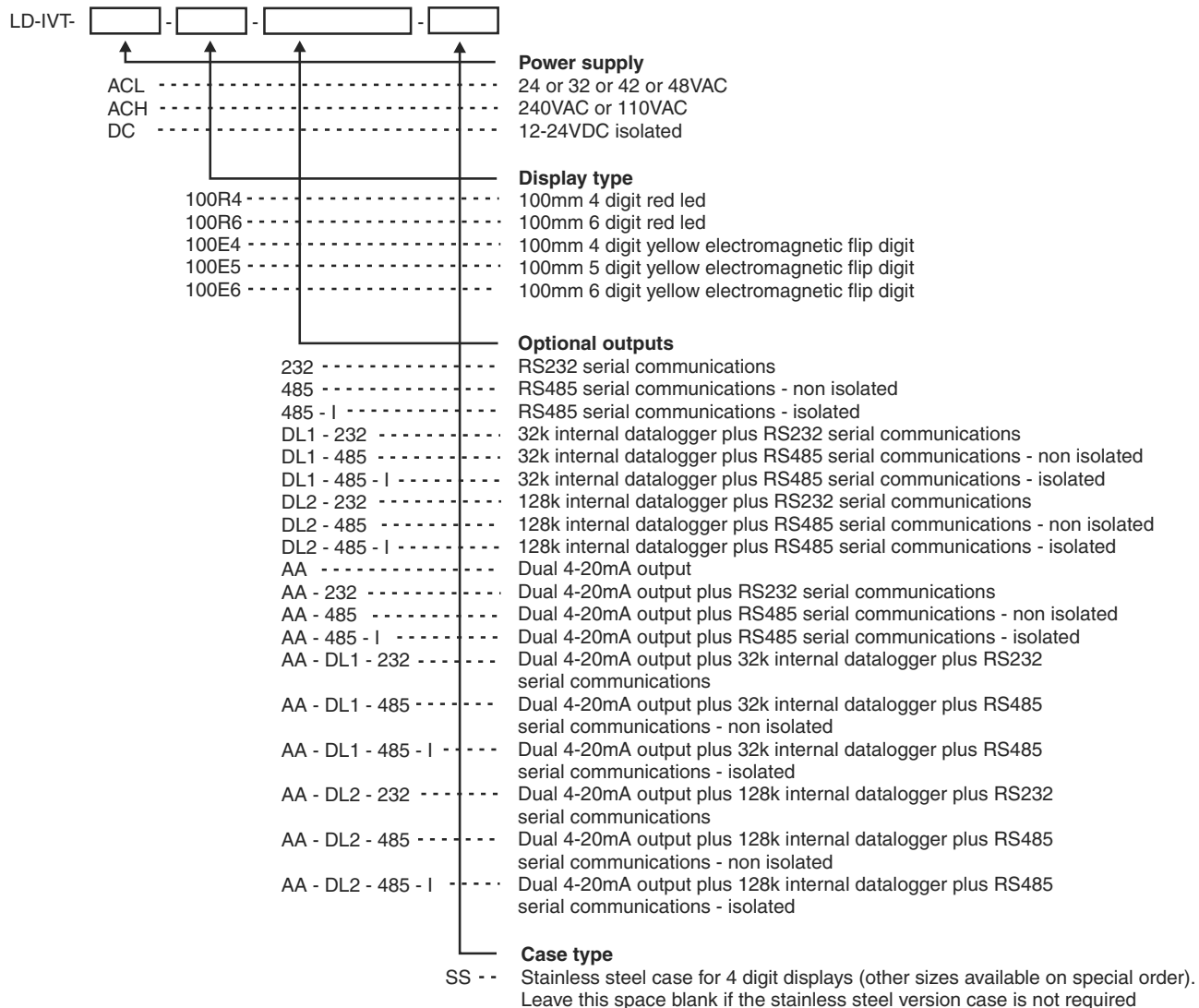
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## LD-IVT order codes for 100mm displays

The last two sections are for optional items (if required).

Optional outputs are factory configured. Analog outputs cannot be retrofitted.



## Applications/input types available with large digit display models

- Analog input, process transmitters etc.  $\pm 20\text{mA}$ , 4-20mA or  $\pm 2.5\text{VDC}$ ,  $\pm 25\text{VDC}$ , slidewire
- 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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