

Economical Large Digit Display

LD4-IVT totaliser from analog input

4 x 57mm high LED digits



Features

- 57mm (visible to 25m)
- Totaliser display from analog input
- Displays in engineering units
- High brightness LED displays
- Pushbutton calibration and setup
- 16VDC unregulated transmitter supply (AC supply models)
- 240VAC, 110VAC, 12 to 16VAC powered or DC (15 to 24V non isolated) powered or optional isolated DC (12 to 24 or 28 to 48VDC) factory configured
- Digital filter, improves stability
- Two Alarm/control relay outputs (5A)
- 2 year guarantee
- Rugged, weatherproof, IP65 rated, housing
- Remote input to perform special functions e.g. zero, display toggle, total reset, brightness level switching, high/low memory, peak hold, display hold.setpoint only access or security lockout
- Optional serial communications, analog retransmission, extra relays, panel mounting kit and hood removal

Description

Model LD4-IVT is a high visibility analog input totaliser display. The instrument will accept inputs of $\pm 20\text{mA}$, $4\text{-}20\text{mA}$, $\pm 100\text{mV}$, $\pm 1\text{V}$, $\pm 10\text{V}$ or $\pm 100\text{V}$ (user selectable via links). From these inputs the display can be scaled to read in engineering units e.g. Metres, Litres etc. The total is retained in memory for a minimum of 1 week with power removed.

The instruments feature flexible pushbutton scaling and programming with "on display" messages being used to assist in setting up. The displays are housed in a robust industrial IP65 enclosure.

Each instrument is supplied with a two control/alarm setpoint relays. Optional outputs include isolated analog retransmission ($4\text{-}20\text{mA}$, $0\text{-}1\text{V}$ or $0\text{-}10\text{V}$, selectable) or isolated serial retransmission (RS232 or RS485, factory configured, with a choice of ASCII or Modbus RTU protocols) and isolated $\pm 12\text{V}$ (24V) transmitter supply.

The programmable digital filter can be used to improve stability by smoothing out short term interference. An external input is configurable to perform one of various functions e.g. zero, display toggle, total reset, brightness level switching, high/low memory, peak hold, display hold, setpoint only access or security lockout. This input can also be used to allow fast and easy access to the alarm setpoints.



LD4IVT-2.2-0

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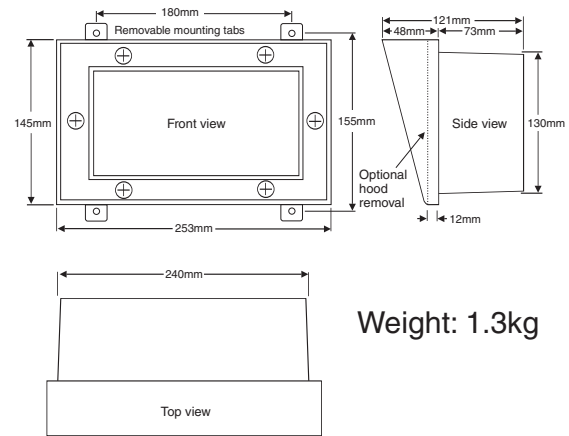
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Technical Specifications

Input Types:	$\pm 20\text{mA}$, 4-20mA, $\pm 100\text{mV}$, $\pm 1\text{V}$, $\pm 10\text{V}$ or $\pm 100\text{VDC}$, link selectable
Accuracy:	0.1% of full scale when calibrated
Input impedance:	80Ω nominal (4-20mA or $\pm 20\text{mA}$ input) $1\text{M}\Omega$ (DC Volts input)
Sample rate:	4 per second
ADC resolution:	1 in 20,000
Microprocessor:	MC68HC11 CMOS
Ambient Temp:	-10°C to 60°C
Humidity:	5% to 95% non condensing
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 (2Apeak) for 24V using non isolated power supply

Dimensions



Weight: 1.3kg

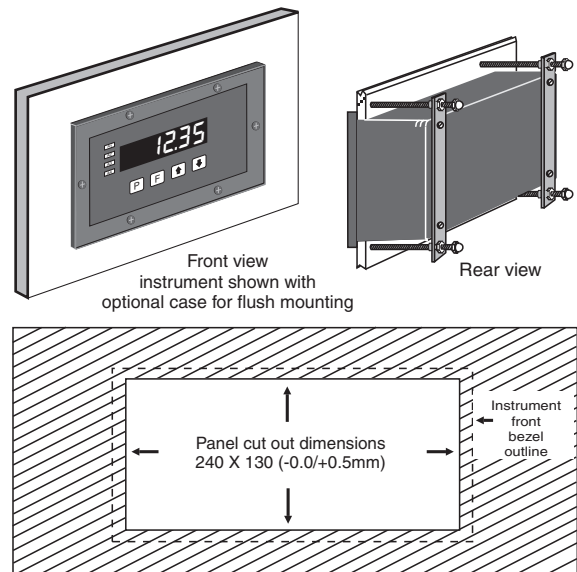
Order Codes

Order Code	Display	Supply Voltage
LD4-IVT-240-574	4 x 57mm red LED	240VAC
LD4-IVT-110-574	4 x 57mm red LED	110VAC
LD4-IVT-DCN-574	4 x 57mm red LED	15-24VDC non isolated
LD4-IVT-DC-574	4 x 57mm red LED	12-48VDC isolated

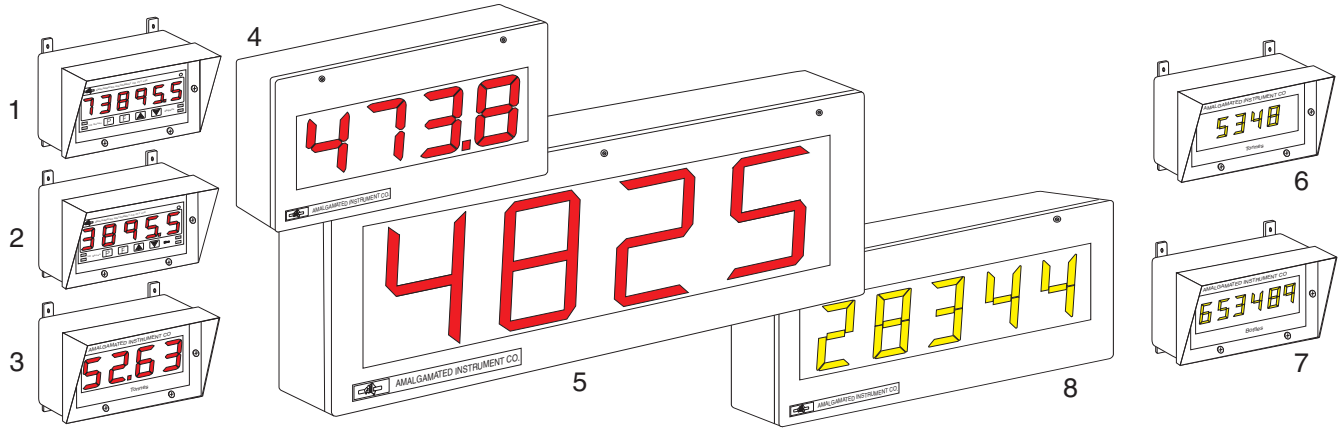
Options

Option Code	Description
LD4-OPT-12	24VDC transmitter supply ($\pm 12\text{VDC}$)
LD4-OPT-C2	RS232 serial comms, non-isolated
LD4-OPT-C4	RS485 serial comms, non-isolated
LD4-OPT-A	Isolated analog retransmission 4-20mA, 0-1VDC or 0-10VDC selectable
LD4-OPT-RR	2 extra setpoint relays
LD-MTG-PM-KIT	Panel mount kit incl brackets & screws
LD-HOOD-REMOVAL	Front hood removal

Panel Mounting Options



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			

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