

Large Digit Display – 200mm digit height

LD-WT - mV/V Load Cell/Strain Bridge input



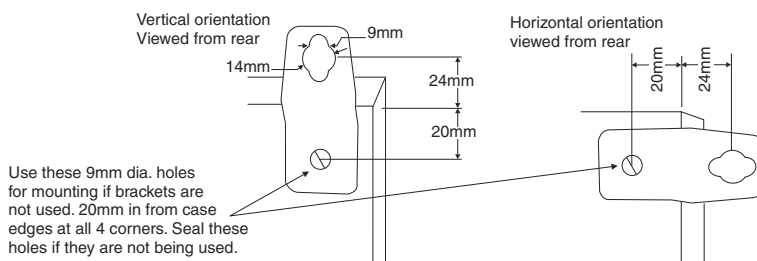
Description

The LD-WT with the 200mm displays will be ideal for those applications where load, pressure or weight indications need to be visible from a distance of up to 100m. Foundries, smelters, weighbridges, storage tanks, and silos are just some of the possible applications for these large digit displays.

The 200mm LED digit displays are housed in rugged, IP65 rated, powder coated zinc coated steel enclosures. A shroud is available for the 200mm displays to provide some protection from direct light if 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.



Features

- 4 or 6 wire mV/V input with 5, 10 or 15VDC excitation
- 4 digit 200mm Red LED rated to 100 metres visibility
- Load, weight, pressure display from mV/V output strain bridge transducer
- Totalling function available using remote pushbutton
- 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
- Pushbutton setup and calibration, display can be scaled without special tools
- 2 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 100mm display models



LDWT200-3.0-0

AMALGAMATED INSTRUMENT CO PTY LTD

ACN: 001 589 439

Unit 5, 28 Leighton Place Hornsby
NSW 2077 Australia

Telephone: +61 2 9476 2244
Facsimile: +61 2 9476 2902

e-mail: sales@aicpl.com.au
Internet: www.aicpl.com.au

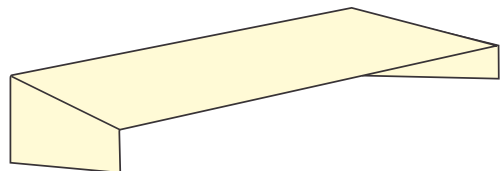
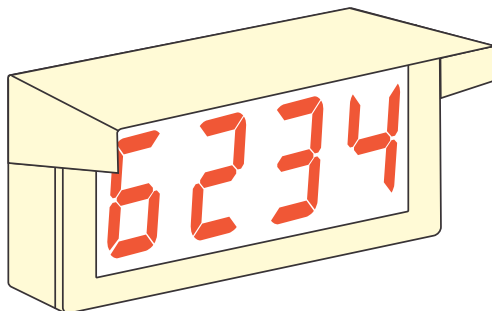
Specifications

Input:	4 or 6 wire load cell, pressure transducer or strain bridge with mV/V output
Excitation:	5V, 10V or 15VDC link selectable
Accuracy:	Up to 0.005% of full scale (alarms and display) dependant on sample rate, mV/V input, calibration method and digital filter setting With analog retransmission better than 0.05% system accuracy Using ECAL and ESCL calibration method accuracy is 1%
Sample rate:	10 to 100 samples/second selectable Retransmission update is slightly lower than sample rate
Display update:	4 times per second
ADC resolution:	Up to 22 bits
ADC conversion:	Sigma delta
Microprocessor:	MC68HC11 CMOS
Ambient temp:	-10°C to 60°C
Humidity:	5% to 95% non condensing
Display type:	200mm 4 digit red LED See separate LD-WT brochures for other display sizes
Power supply:	See order code table (type is factory configured)
Power usage:	AC supply 15VA max, DC supply typically 1.3A at 24VDC for LED displays (plus current for load cell which depends on load cell impedance)
Outputs (standard):	4 x relays, form C, 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.



LDWT200-3.0-0

AMALGAMATED INSTRUMENT CO PTY LTD

ACN: 001 589 439

Unit 5, 28 Leighton Place Hornsby
NSW 2077 Australia

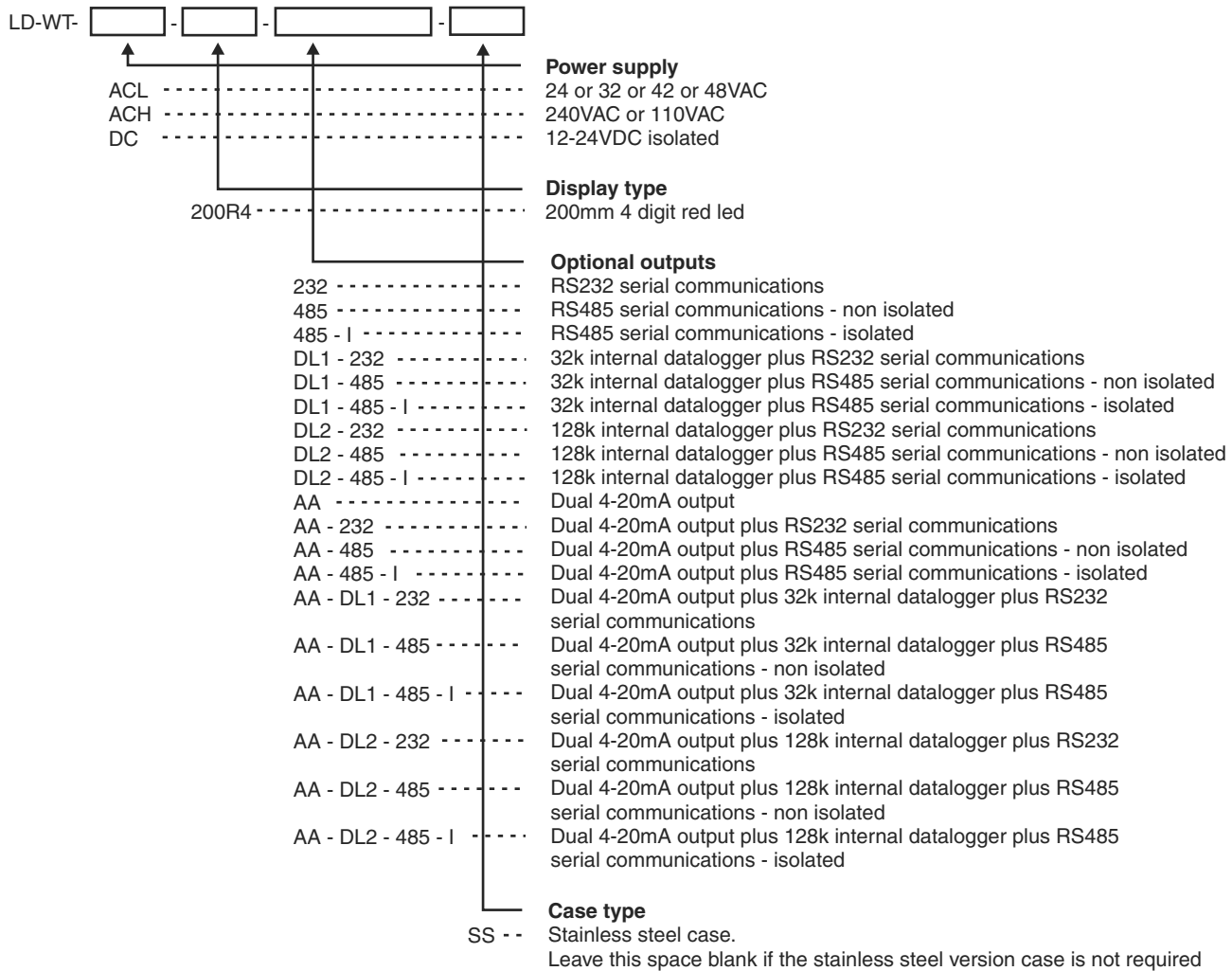
Telephone: +61 2 9476 2244
Facsimile: +61 2 9476 2902

e-mail: sales@aicpl.com.au
Internet: www.aicpl.com.au

LD-WT order codes for 200mm 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.

LDWT200-3.0-0

AMALGAMATED INSTRUMENT CO PTY LTD

ACN: 001 589 439

Unit 5, 28 Leighton Place Hornsby
NSW 2077 Australia

Telephone: +61 2 9476 2244
Facsimile: +61 2 9476 2902

e-mail: sales@aicpl.com.au
Internet: www.aicpl.com.au