

Large digit displays - 38, 45 or 57mm digit height models

LD-SS Synchronous Serial Interface (SSI)

The LD-SS range of large digit displays is designed for use with a Synchronous Serial Input (SSI). The input type can be configured as binary or Gray Code coded. Calibration, alarm settings, decimal point etc are all carried out using the push buttons on the main board of the instrument (57mm display) or on the front panel (38mm and 45mm displays). The 38mm, 45mm and 57mm LED displays are housed in rugged, IP65 rated, ASA enclosures.

Displays



6 digit 38mm high LED (visibility to 18m)



5 digit 45mm high LED (visibility to 20m)

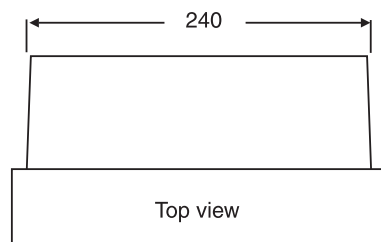
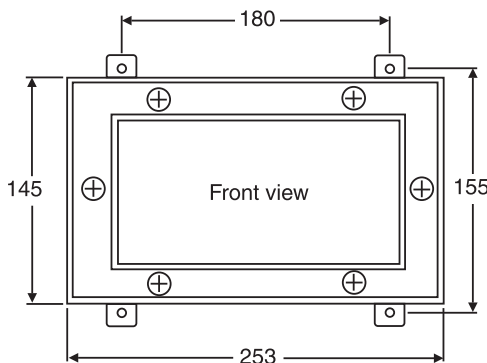


4 digit 57mm high LED (visibility to 25m)

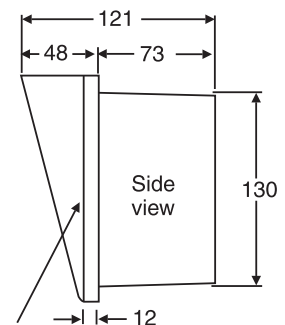


Features

- Synchronous Serial Interface (SSI) input
- Up to 31 bits SSI binary or Gray code
- Display scalable to read in engineering units e.g. mm
- Pushbutton scaling and setup
- 6 x 38mm LED - visibility rating to 18m
- 5 x 45mm LED - visibility rating to 20m
- 4 x 57mm LED - visibility rating to 25m
- Can be used via model RM-BC or RM4-BC converters to display from non SSI Binary/BCD/Gray code sources
- Choice of normal (600kHz) clock rate or low (90kHz) clock rate for long cable runs
- IP65 rated wall mount enclosure
- 2 configurable setpoint relays standard rated at 240VAC, 5A into a resistive load, form A
- Panel mount kit available
- Pushbutton setup
- Flexible scaling methods
- Dual calibration memory allows switching of scaling via remote switch e.g. mm and inches
- Remote input can be configured to one of a wide range of functions including zero, tare, 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 39mm flip digit, 100mm LED and flip digit and 200mm display models



All dimensions in mm



Can be ordered with or without hood

LDSS384557-2.3-0

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

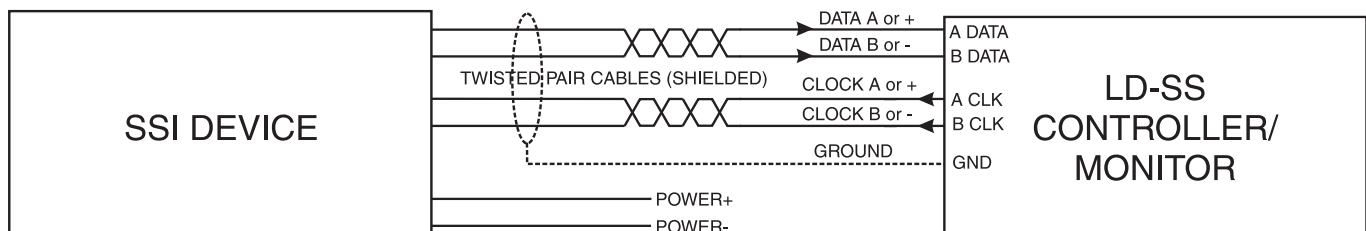
e-mail: sales@aicpl.com.au
Internet: www.aicpl.com.au

Specifications

Input:	SSI - Synchronous Serial Interface Binary or Gray Code coded SSI input, programmable up to 31 bits
Microprocessor:	MC68HC11 CMOS
Ambient temp:	LED models -10°C to 60°C
Humidity:	5% to 95% non condensing
Display types:	38mm 6 digit red LED with alarm annunciators and 4 way keypad 45mm 5 digit red LED with alarm annunciators and 4 way keypad 57mm 4 digit red LED See separate brochures for other display sizes
Clock frequency	600 kHz or 90 kHz selectable
Power supply:	See order code table (type is factory configured)
Power usage:	AC supply 15VA max, DC supply typically 250mA at 24VDC (57mm display) DC supply typically 100mA at 24VDC (38 & 45mm displays)
Outputs (standard):	2 x relays, 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:	1.3 kg
Dimensions:	See front page

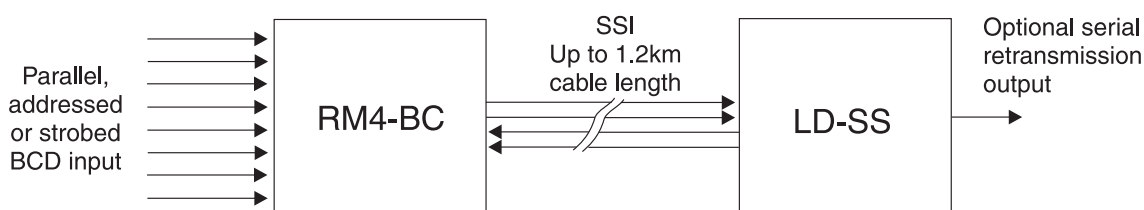
Sensor to display wiring details

The maximum cable length is normally determined by the device/encoder being connected to the display. Consult the handbook for the SSI device used for details of maximum cable length. Note: Twisted pair shielded cable must be used for clock and data. A 24VDC sensor supply is provided, this is limited to 50mA maximum current, check to ensure this is sufficient for the the encoder used, if not then an external power supply will be required.



Connections via RM4-BC SSI converter

The display can be connected to standard BCD sources via the RM4-BC BCD to SSI converter. The BCD input may be presented in parallel, strobed or addressed form.



LDSS384557-2.3-0

AMALGAMATED INSTRUMENT CO PTY LTD

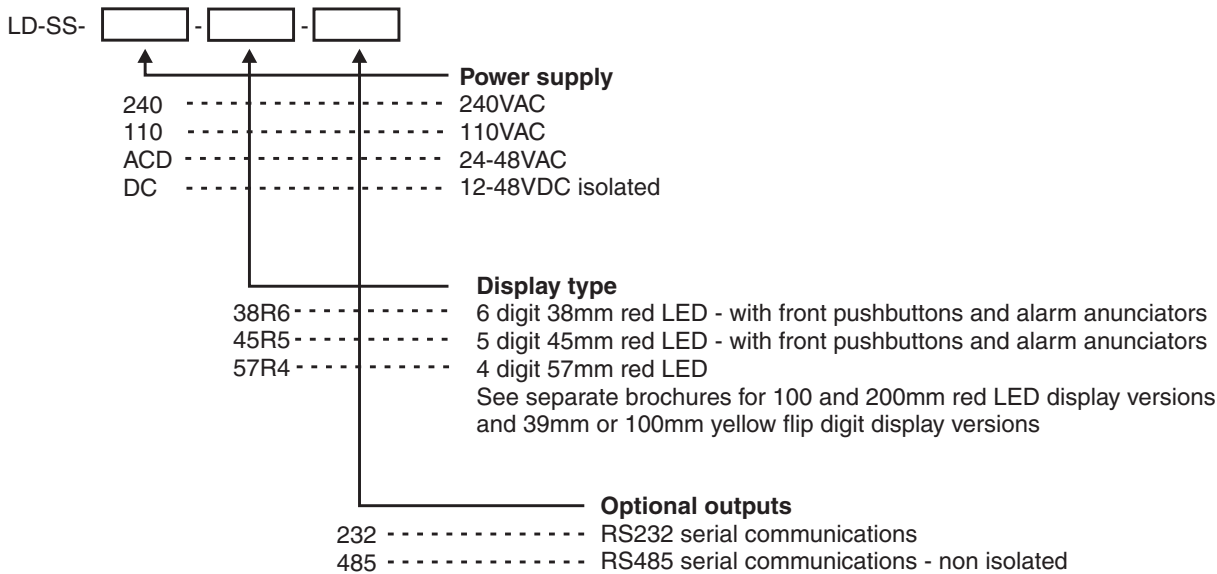
ACN: 001 589 439

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-SS order codes for 38, 45 or 57mm displays

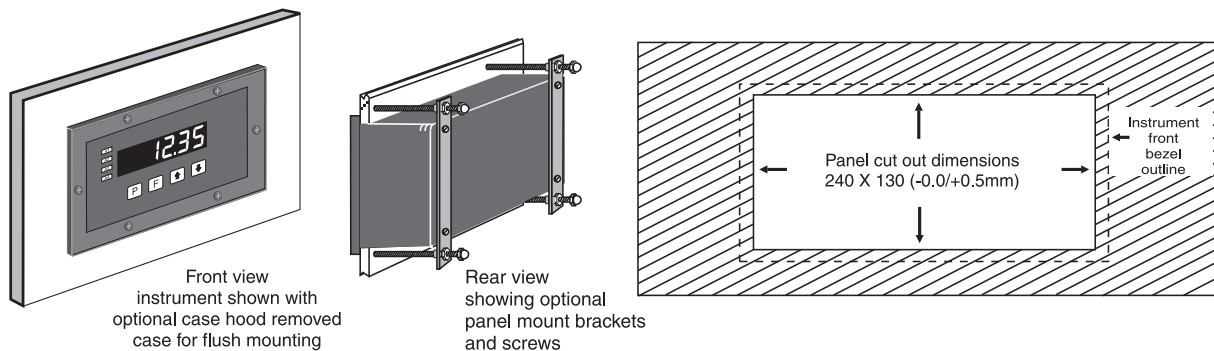


Panel mounting

The instrument is provided with removable surface (e.g.wall) mounting tabs mounting. A panel mount kit is optionally available which allows the instrument to be mounted via a panel cut out. If required the instrument can be optionally supplied with the front hood removed to allow a more flush panel mount fitting.

Part number for panel mount kit: LD-MTG-PM-KIT

Part number for hood removal: LD-HOOD-REMOVAL



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.

LDSS384557-2.3-0

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