

GEDGE SYSTEMS - Since 1978 Australia's Leading Manufacturer of High Accuracy Weighing Electronics now bringing you Superior Quality Gedge Load Cells.



Meets the latest Australian & European EMI/RFI immunity and emission standards.

Trade-Approved indicator ideal for Weighbridges, Silo Weighing & Hoppers.

■ Withstands The Heat

- Unlike other miniature weight indicators that suffer from overheating due to high component density, the GS600 runs cool. Its generous internal layout is specifically designed to enhance heat dissipation, ensuring reliable performance.

■ Practical Front Panel & Keyboard

- **Glove-Friendly Keys:** 10mm keys for easy operation even while wearing gloves.
- **Clear Display:** Large six-digit LCD digits (20mm) for excellent visibility, even in low-light conditions.
- **Keyboard Tare Function:** Convenient tare adjustments directly from the keypad.

■ Durable Enclosure

- **Material:** Stainless steel or anodised aluminium.
- **Protection:** IP65 rating for superior resistance in harsh environments when panel-mounted.

■ Precision & Accuracy

- **24-Bit Display Resolution:**
- **Internal resolution:** 16,777,216 counts.
- **Configurable weight increments:** 1, 2, 5, 10, 20, 50, 100, or 500.
- **Linearity Correction:** Simple adjustment ensures accurate linearisation for any installation.

■ Capacity

- Supports 8 - 16 load cells for flexible configurations.

■ Trusted Choice

- The preferred choice of major Australian weighbridge and scale manufacturers thanks to their quality, reliability, accuracy, and fair total cost. Proudly Australian-made.

■ Compliance

- **NMI Approved:** Certified by the National Measurement Institute Australia to 6,000 divisions per range/interval (Certificate S621).

■ Options & Connectivity

- Time and date display.
- Simultaneous analog and serial outputs.
- Optically isolated serial options.

■ Serviceability

- **Field-Swappable Option Cards:** Quick replacement reduces downtime in case of surges or lightning.

■ Tested for Reliability

- Every GS600 undergoes 100% testing in a temperature chamber between -10°C and +50°C, guaranteeing accuracy and stability.

FEATURES

■ Front Panel

- 20mm high 6 digit LCD Display
- Positive action tactile feedback keyboard behind a tough water-resistant membrane

■ Linearity Adjustment:

- Can be set up to apply a single linearity correction anywhere within the weighing capacity. The linearity adjustment, entered in quarter division increments for utmost accuracy, can correct up to 31 display divisions of non-linearity. The correction is automatically proportioned and does not need to be symmetrical around the point of maximum error

■ Load Cell/s Input:

- **Range:** -1mV to 45mV calibrated, with 400 to 6,000 display divisions at 0.8μV/divisions
- **Displays:** -4% to +104% FS range
- **Excitation:** 10VDC short circuit protected, capable of driving eight load cells at 350ohm or sixteen load cells at 700ohm
- True differential remote sensing using a separate pair of wires

■ Assured Quality:

- Each Indicator is shipped with a signed and numbered quality certificate, ensuring assured quality due to our experience, design, and in-house production control

■ Front End Accuracy / Stability:

- **Linearity:** $\pm 0.01\%$ FS
- **Span Drift:** $\pm$ Typical 3ppm/°C
- **Zero:** For dead load input ranging from -20mV to +20mV
- **Noise:** Maximum 0.1μV p-p RTI

■ Physical / Environmental:

- All-metal enamel finished panel mounting enclosure with panel mounting slides
- **Front Dimensions:** Width: 198mm, Height: 102mm, Depth: 3mm
- **Body Dimensions:** Width: 184mm, Height: 90mm, Depth: 132mm
- **Panel Cutout Dimensions:** Width: 186mm, Height: 92mm
- **Panel Rear Projection:** 180mm (allows extra for connectors)
- **Weight:** 2kg; **Shipping weight:** 3kg
- **Operating Temperature:** -10°C to +50°C
- **Storage Temperature:** -15°C to +70°C

■ Power and Connectivity:

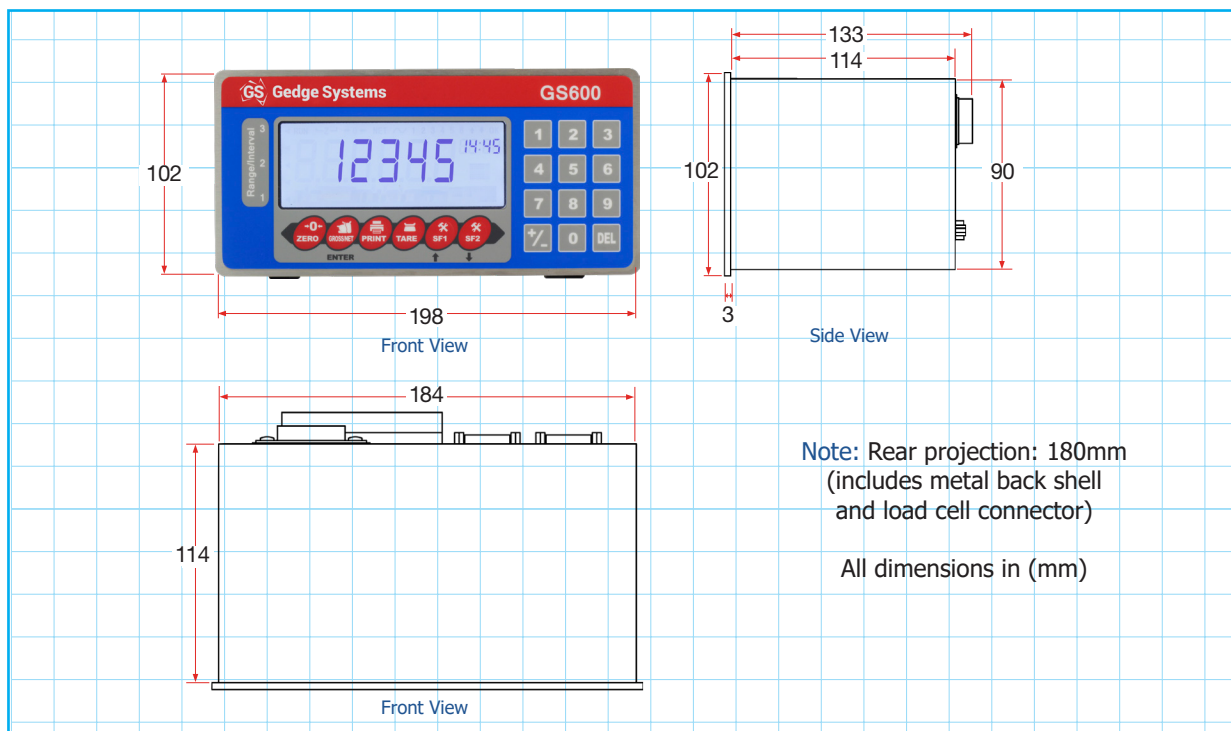
- **Power Supply:** 85VAC to 265VAC (to be specified upon ordering), 49 to 62Hz, 30VA or 24VDC to 60VDC optional
- **Rear Panel:** Includes power receptacle, fuse holder, 9-pin D load cell connector, and cutouts for three output options connectors
- **Output Options:** 13-pin phoenix connector 5.08mm separator, 9-pin D connector for RS232 (Com 1), and additional cutouts for output options

■ World Class Standards:

- Approved by the National Measurement Institute Australia for use up to 6000 divisions per range/interval. **Certificate NMI S621**
- Conforms to the requirements of the Australian electromagnetic compatibility Framework C-Tick Regulations
- Conforms to the European Electromagnetic Emissions & Immunity Directive



DIMENSIONS



SPECIFICATION

Load cell signal input	4-wire or 6-wire strain gauge, 0-4.5mV/V ($\pm 45\text{mv}$ trade, $\pm 100\text{mv}$ non-trade)	Remote inputs	4 x Programmable inputs (zero, units, tare, peak, peak reset, valley, valley reset, plus more)
Power supply	85-265VAC 50/60Hz or 24-60VDC	Optional outputs	Modbus RTU
Display	1 x 6 digit (20mm), 7 segment numeric LCD. IP65 dust/splash proof when panel mounted. 18 buttons, 4 set-point indicator LED's + 1 NET/GROSS indication. Range/interval indicator, 60mm x 10mm LCD alphanumeric matrix	Excitation voltage	10VDC supplied by controller (powers up to 8 x 350 Ω load cells or 16 x 700 Ω load cells TRADE)
Panel mount case	H:102mm x W:198mm x D:116mm Panel cutout: 186mm x 92mm	Sampling rate	Up to 50Hz Selectable
Relay outputs	1 standard, 3 optional programmable 5A form A relays (240VAC 3A max or 30VDC 3A max). Includes hysteresis, make delay and enabling of LCD annunciators for alarms and relay status indication	Resolution	24-bit (16,777,216 internal counts)
Analogue output	1 x isolated 16-bit 4-20mA and 0-10V output (Output programmable over any range within the full scale range of the controller)	Accuracy	0.005% of reading
Serial port	3 x Isolated RS232 or RS485 serial output (Modes: ASCII, Modbus/RTU slave, Gedge C1-5 Data rates: 1200-115200 baud. Parity: Odd/even/none, all serial ports programmable)	Temperature drift	Typically 3ppm/ $^{\circ}\text{C}$
		Conformity	NMI Australia OIML CE UL
		Display resolution	Selectable (1,2,5,10,20,50,100)
		Operating applications	General weighing Peak and valley measurement Remote Summing Display