GS **Gedge Systems**
MADE IN MELBOURNE SINCE 1978

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

Meets Stringent **NMI R 76-1** Non-Automatic Weighing Instruments Standard. **S621**

FULLY COMPLIANT ✓

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

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

Withstands the Heat -
The GS600 RUNS COOL - Other miniature weight indicators have high component densities and this makes them prone to over-heating. The GS600 Runs Cool, due to our generous layout designed to enhance heat dissipation.

Sensibly Sized Front Panel & Keyboard - The 10mm keys can easily be operated while wearing gloves and the large six digit 20mm LCD Digits are clearly readable from a distance, even in low light conditions. Keyboard Tares.

Stainless Steel / Anodised Aluminium IP65 Enclosure - For the ultimate in harsh environment protection, when panel mounted.

24 bit Divisions Display Resolution - 16,777,216 internal counts resolution. Can be setup in weight increments of 1, 2, 5, 10, 20, 50, 100 or 500.

Linearity Correction - allows any installation to be Accurately Linearized by using one easily Set Linearity adjustment setting.

Drives up to 8 Load Cells

Weight Indicators of Choice - Gedge Systems Weight Indicators are chosen by more Major Australian Weighbridge & Scale Manufacturers than any other Brand. And for good reason:- Quality, Reliability, Accuracy, Australian Made and able to be Supplied & Installed for a Fair Total Cost.

National Measurement Institute Australia Approved - to 6,000 divisions, per range / interval. NMI Certificate S621.

Full Range of Options - Options including Time and Date, Simultaneous Analog & Serial Outputs and Optically Isolated Serial Options.

Swap Option Card in the Field - Output cards can be swapped if needed. This reduces downtime in the unlikely event of surges or lightning.

100% Tested - Every GS600 is 100% tested in our temperature chamber between - 10°C and +50°C to assure you of its accuracy and stability.

FEATURES

Front Panel

SIX digit 20mm high 6 LCD display to 999999

Positive action tactile feedback keyboard behind tough water-resistant membrane.

Linearity Adjustment

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

Load Cell/s Input

-1mV to 45mV calibrated 400 to 6,000 display divisions at 0.8µV/divisions. Displays -4% to +104% FS range. Excitation 10VDC Short Circuit Protected drives up to SIXTEEN 700ohm Load Cells in parallel to 230mA max. True differential remote sensing using a separate pair of wires.

Assured Quality

Our experience, design and in-house production control ensures each Indicator is shipped with a signed and numbered quality certificate.

Front End Accuracy / Stability

Linearity ±0.01%FS

Span Drift ±Typical 3ppm/ ᵒC

Zero, for dead load input from -20mV to +20mV

Noise 0.1µV p-p RTI maximum

Physical / Environmental

All metal enamel finished panel mounting enclosure with panel mounting slides.

- Front W:198mm H:96mm;
  Body W:184mm x H:90mm x D:133mm
- Panel cut out W:186mm x H:92mm. Panel rear projection 180mm (allow extra for connectors)
- Weight 2kg; Shipping weight 3kg
- Environment -10C to +50C Operating; -15C to +70C Storage; to 95%RH non condensing
- Power 85VAC to 265VAC 49 to 62Hz 30VA or 12-24VAC optional
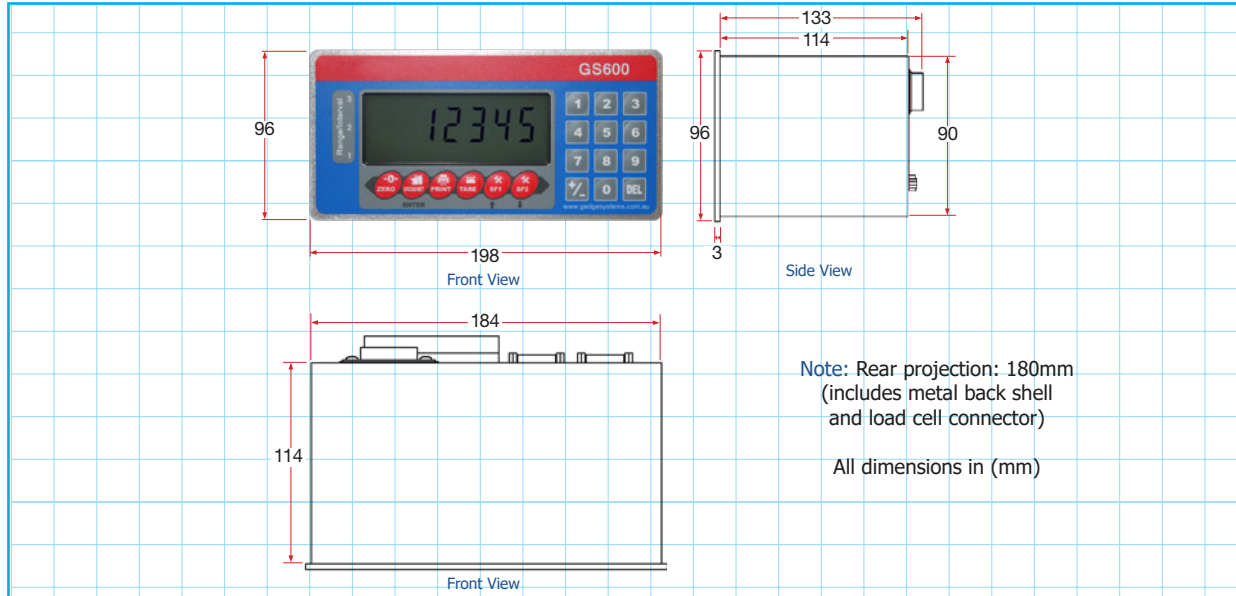
World Class Standards

Approved by National Measurement Institute Australia for use up to 6000 divisions per range / interval Certificate S621.

Conforms to the requirements of the Australian electromagnetic compatibility Framework C-Tick Regulations.

Conforms to European Electromagnetic Emissions & Immunity Directive.

DIMENSIONS

96

198

Front View

133

114

96

90

3

Side View

184

114

Front View

Note: Rear projection: 180mm
(includes metal back shell
and load cell connector)

All dimensions in (mm)

SPECIFICATION

Load cell signal input	6-wire strain gauge, 0-4.5mV/V (+/- 45mv trade, +/- 100mv non-trade)
Power Supply	85-265V AC 50/60Hz or 12-24V DC
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.
Panel Mount Case	H:90mm x W:184mm x D:133mm Panel cutout: 186mm x 92mm
Relay Outputs	1 standard, 4 optional programmable 5A form A relays (3A 240V AC max or 3A 30V DC max). Includes hysteresis, make delay and enabling of LCD annunciators for alarms and relay status indication.
Analogue Output	1 x isolated 16-bit 4-20mA and 0-10V output (Output program mable over any range within the full scale range of the controller)
Serial Port	3 x Isolated RS232 or RS485 serial output (Modes: ASCII, Modbus/RTU slave, Gedge C1-5. Data rates: 2400, 4800, 9600, 19.2 baud. Parity: Odd/even/none, all serial ports programmable)

Remote Inputs	5 x Programmable inputs (zero, units, tare, peak, peak reset, valley, valley reset, plus more)
Optional Outputs	Ethernet (tcp/ip, Modbus RCU) Devicenet USB
Excitation Voltage	10V DC supplied by controller (powers up to 16 x 700Ω load cells TRADE)
Sampling Rate	Up to 50Hz Selectable
Resolution	24-bit (16,777,216 internal counts)
Accuracy	0.005% of reading
Temperature Drift	Typically 3ppm/°C
Display Resolution	Selectable (1,2,5,10,20,50,100)
Operating Applications	General weighing Batching (GS600B) Weighbridge Controller Check weighing