Gedge Systems

- Checkweighers
- Counters
- Indicators
- Instrument Protection
- Load Cells
- Onboard Weighing
- Process Weighing
- Recipe System
- Scales
- Silo Weighing
- Software
- Test Masses
- Weighbridges

GS600 Intelligent Indicator

Ideal uses:

- Weighbridges
- Hoppers
- Signal Conditioning
- Batching

International Quality.

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

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

Top Features of the GS600:

- **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 25mm 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 Cards 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 +40°C to assure you of its accuracy and stability.

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Features of the GS600:

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 EIGHT 350ohm Load Cells in parallel to 230mA max. True differential remote sensing using a separate pair of wires. Source Impedance 2kohm maximum. Input Impedance 10Mohm minimum.

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 ±Typical 3ppm/℃.
- 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 198mm W x 96mm H; Body 184mm W x 90mm H x 150mm L.
- Panel cut out 186mm W x 92mm H. Panel rear projection 133mm (allow extra 70mm for connectors).
- Weight 2kg; Shipping weight 3kg.
- Environment -10C to +40C Operating; -15C to +70C Storage; to 95%RH non condensing.
- Power HV: 200 - 250V AC, 50/60Hz (Standard) LV: 10-30V DC (Optional)
- Rear Panel includes Power receptacle, Fuse/fuse holder, 9 pin D load cell connector plus cutouts for three Output Options Connectors, 13 pin phoenix connector 5.08mm separator, 9 pin D Connector for RS232 (Com 1), Cut out for Output Options.

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.

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Full Specifications - Page 1 of 2

Loadcell signal input	4-wire or 6-wire strain gauge, 0-4.5mV/V (+/- 45mv trade, +/- 100mv non-trade).
Power Supply	HV: 200 - 250V AC, 50/60Hz (Standard) LV: 10-30V DC (Optional)
Display	1 x 6 digit (20mm), 7 segment numeric LCD. 18 buttons, 5 set-point indicator LED's + 1 NET/GROSS indication. Range/interval indicator, 60mm x 10mm LCD alphanumeric matrix.
Panel Mount Case	96H x 196W x 120D (mm). Panel cutout: 186 x 91 (mm).
Relay Outputs	• 1 x Relay Output (Standard) • Default configuration PLUS 4 x additional relays (5 Relays in Total - Optional)
Analogue Output (optional)	1 x Analogue Outpout 0-10V/4-20mA on one board.
Coms	• 3 x RS232 ports (Standard) • Default configuration PLUS one additional com port (Com 4 = RS232) - Optional
Serial Port	3 x Isolated RS232 (Standard) or RS485 serial output (Modes: ASCII, Modbus/RTU slave, Gedge C1-4. Data rates: 1200-115200 baud. Parity: Odd/even/none, all serial ports programmable).
Remote Inputs	4 x Programmable inputs (zero, units, tare, peak, peak reset, valley, valley reset, plus more).
Excitation Voltage	10V DC for up to 8 x 250Ω supplied by controller (powers up to 8 x 350Ω load cells TRADE). (4 wire or 6 wire plus shied.)
Sampling Rate	Up to 50Hz Selectable.
Resolution	24-bit (16,777,216 internal counts).
Accuracy	0.005% of reading.
Temperature Drift	Typically 3ppm/°C.
Approvals	• C-Tick, • Trade Approved - Australian NMI Certificate (S621) • 6000d at 0.8µV/d
Display Resolution	Up to 400,000d, minimum of 0.1µV/division Selectable (1,2,5,10,20,50,100).
Operating Applications	General weighing Batching (GS600B) - Optional Counting Check weighing Peak and valley Measurement Remote/Summing Display

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Full Specifications - Page 2 of 2

Zero Cancellation	± 4.5mV/V
Zero Stability	< 50nV/C°
Span Adjustmenet	0.04-4.5mV/V
Span Stability	± 5ppm/°C
A/D Type	24 bit sigma delta with 8,388,608 internal counts
A/D Noise	100nV p-p with respect to input
Source Impedance	43Ω minimum 1200Ω maximum 350Ω nominal
EMI Immunity	As per OIML R-72-2.2007
Operating Environment	-10 to 50ºC; Humidity < 90% non condensing
Digital Filter	Single Order Low Pass (from 0 - 25 seconds)
Operating Modes	• Full multi-internal and wide range weighing. • Up to three intervals and ranges with count by values of: - 1/2/4/ - 2/5/10 - 5/10/20 - 10/20/20 - 10/20/50 - 20/50/100 - 50/100/200 - 100/200/500 - 200/500/1000
Clock	Battery Backed Clock Calendar
Accuracy	0.005% of reading.
Temperature Drift	Typically 3ppm/°C.
Approvals	• C-Tick, • Trade Approved - Australian NMI Certificate (S621) • 6000d at 0.8µV/d • CE • UL
Display Resolution	Selectable (1,2,5,10,20,50,100).

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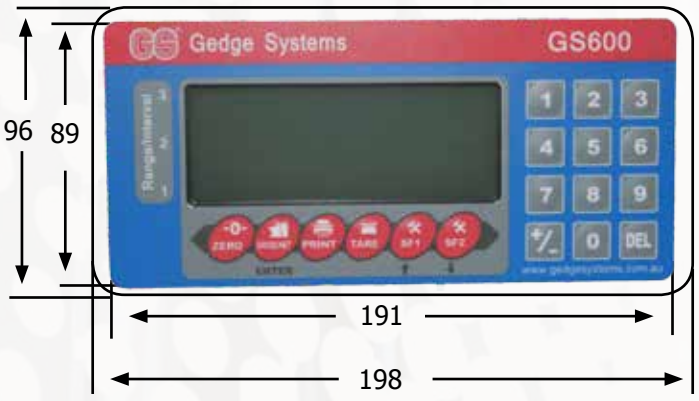
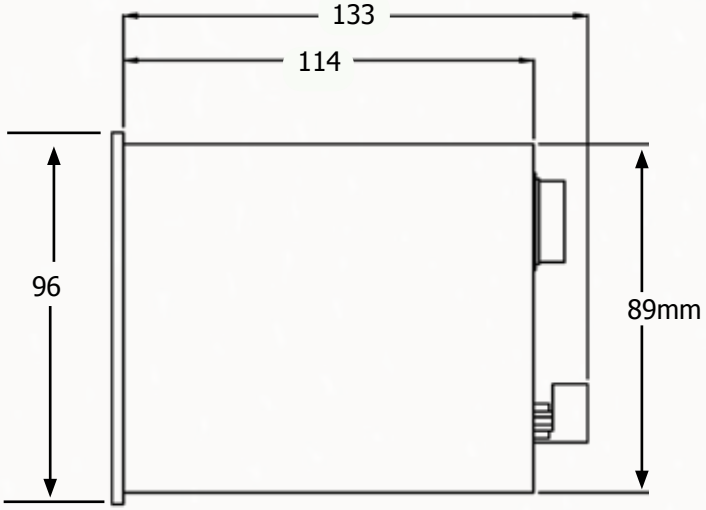
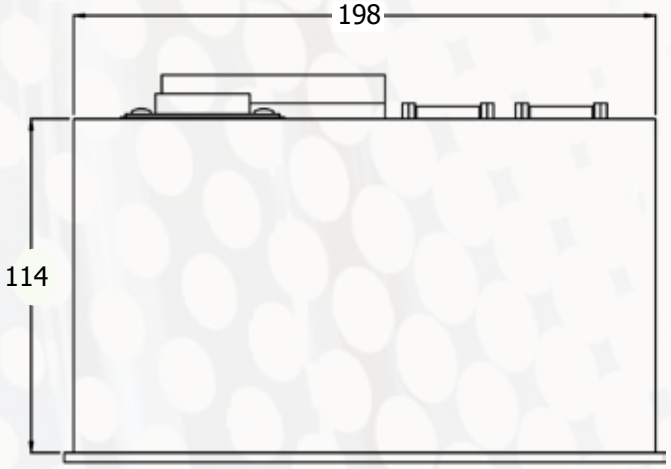
GS600 Intelligent Weight Indicator Dimensions



Front View

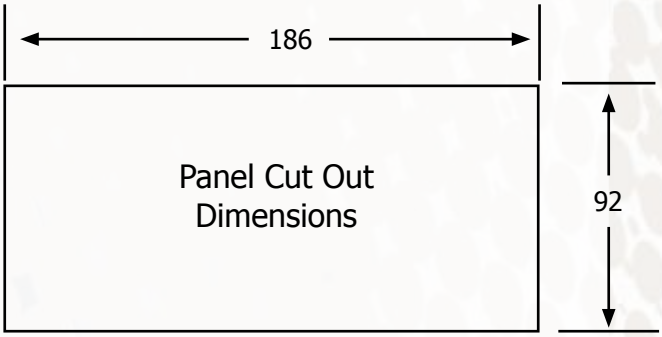


Side View



Top View

GS600



All Dimensions in mm

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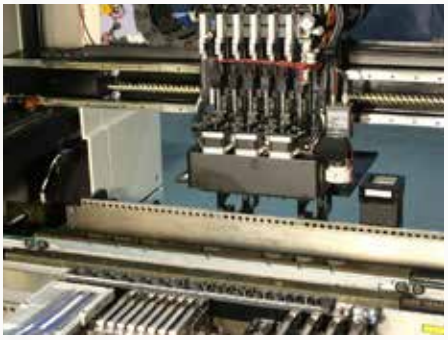
Gedge Factory


High Quality Pick & Place Machines utilize digital illumination & multi-camera advanced vision, for high speed, high precision SMT component placement.

MPM Screen Printer, with advanced vision and data acquisition technologies for consistent, high-quality output to produce superior results.


SMT Line with Pick & Place machines and lead-free approved reflow oven – keeping up with the latest technology and specially designed to provide testing and stability.


Rigorous quality testing procedures ensure all of our products are of the highest quality standard with the best in cutting edge innovation and to help achieve and bring to you, the best quality equipment on the market.

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THE GEDGE STORY

Gedge Systems, head office is situated in Melbourne Australia located near the bustling area of Dandenong. It started when founder Brian Gedge discovered there was a large hole in the market place for quality instrumentation and weighing componentry both in the local and international market places. Brian's background was strongly rooted in the fundamental technology on which all weighing is based, this being applied stress analysis and the application of bonded resistive strain gauge technology both in experimental stress analysis and the manufacture of force and weight transducers – otherwise known as load cells.

With this technology in hand and partnering with a Team of electronic , electrical and mechanical engineers in 1978 the company was trading with a newly developed load cell and instrumentation product line. Over the years with new models and continuing the Research & Development. The Gedge brand has grown to be a company, recognised internationally.

Gedge Systems is Australia's longest established manufacturer of high quality, high accuracy and high reliability Industrial Weighing electronics. We have been producing weighing equipment from our Melbourne plant since 1978, we have shipped tens of thousands of our Digital Weight Indicators, Batch Controllers and General Industrial Weighing Equipment throughout Australia and Overseas. Many of the products you see around you, and use, will have been made using our Weighing and Batching Equipment. There is scarcely a plant in Australia that does not have somewhere one of our Weighing and Batching products to meter and weigh material it may be on an Industrial Weighing Scale, connected to Silos, Mixers or Hoppers, connected to Weighbridges, controlling a bottle or bag filler or in any one of the countless situations that need process materials by weight.

The list is endless. If yours is a plant that processes material by weight, then it is almost certain you will already have one of our distinct 'blue boxes' in your factory – it may very well have been serving you for 20 years or more, as our products have an enviable reputation for reliability and, as we don't believe in "planned obsolescence", you will find we can service and support that product today.

Notable milestones for Gedge Systems are that we were the FIRST manufacturer in Australia to obtain Weights & Measures Approval for the use of our Digital Weight Indicator in 'trade weighing'. Our model GS1400 was approved by the National Standards Commission (NSC now NMI) in 1985 for use to 5,000 divisions. Since then we have obtain successive updates of Approvals on our GS1650 Series of Digital Weight Indicators which today set the Accuracy and Stability Benchmark, being Approved for Trade weighing to 8,500 divisions. Weights and Measures Approved Equipment must be used wherever goods are sold by weight - this applies as much at the Retail level in Shops and Supermarkets as it does at the Industrial level in factories and on weighbridges.

Gedge System's successful history is continuing with numerous new developments, and many new products and applications that have been launched into the market.

The technological know-how which has been continuously acquired and enhanced which gives us the leading edge over our competitors with a majority of the product being designed and manufactured here locally in Australia.

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Call the Gedge Systems Technical Sales or Engineering Team for the right solution for your business.

Gedge Systems prides itself on providing plain english proposals, there's no hidden surprises. You'll know what you're getting up front.

Gedge Systems manufactures Indicators, Load cells, & Industrial Weighing Solutions.

For any questions about Industrial Weighing Solutions, talk to us. We listen.

Find out fast how our sales team and project engineers provide you with the best Weighing Solutions for your needs. Call us now or send an email.

Your solution lies with us. Act now!

Other Gedge's Products

GS100P Indicator

GS100R Indicator

GS Hercules Load Cell

Titan Load Cell

GS-AGX-1 Shear Beam Load Cell

GS120 Large Display

GEDGE SYSTEMS - Since 1978 Australia's Leading Manufacturer of High Accuracy Weighing Instrumentation and Weighing Componentry

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Dealer's Information:

For more details: You can use your your smartphone to scan this QR code.