AUSTRALIAN WEIGHING EQUIPMENT
Weigh ahead in Weighing

PRODUCT GUIDE

GS100R
Load Cell Controller

- High speed, high accuracy weighing, batching and tank level measurement
- Compact design - mounts to 35mm DIN rail
- Drives up to 8 load cells

■ FEATURES

- Ideal controller for high-speed, high-accuracy weighing, batching and level measurement operations

- Compact design allows close mounting on standard 35mm DIN rails

- Full isolation of supply, load cells and outputs

- Drives up to 8 load cells

- Offset and span time calibration functions - system can be calibrated without application of test masses

- Relay, serial and analog output options make it valuable for stand-alone control or as an interface for PC, PLC & HMI applications

- Intuitive scrolling text prompts facilitate easy setup and user navigation

- Locally designed and manufactured - most configurations are ex-stock Melbourne works

- Lowest cost feature for feature instrument on the market

Ideal controller for **high-speed, high-accuracy weighing, batching & level measurement operations**

■ IDEAL USES

- Trip amplifier where the low setpoint might find applications for slack rope or low tank level, and the high setpoint might be overload or high tank level

- Tank level controller

- Tank farm signal conditioner

- Crane trip amplifier

- Silo weighing instrument

- Weight transmitter (analog or digital)

- Modbus network interface

- Weighing interface to PLC

■ SPECIFICATIONS

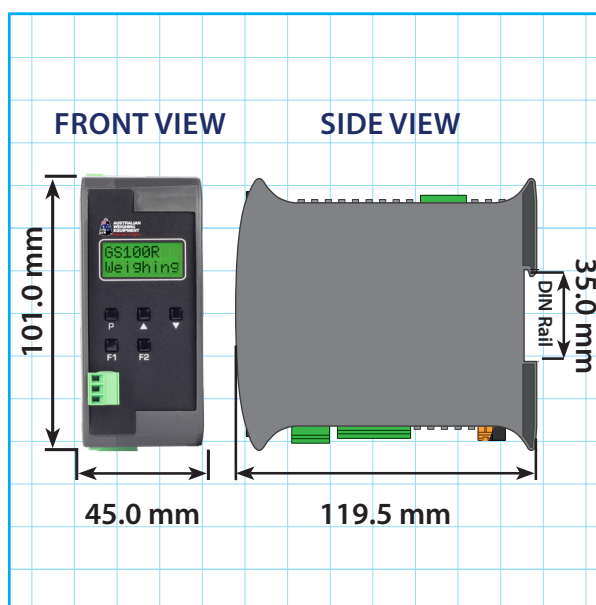| Model	GS100R
Input	4/6-wire strain gauge 1-5mV/V
Power supply	HV - 85-265V AC / 95-370V DC LV - 15-48V AC / 10-72V DC
Relay outputs	2 programmable form A relays with hysteresis and delay on make
Analog output (optional)	Isolated 16-bit 4-20mA / 0-10V output (fully scalable). Windows programmable over any range within the full-scale range of the controller. 7Hz
Serial port (optional)	Isolated option 2 or option 4 serial port » Modes: ASCII, Modbus/RTU slave, Ranger A output » Data ranges: 300-38400 » Parity: Odd, even or none
Excitation	5VDC excitation supplied (powers up to 8 x 350Ω load cells)
Sampling rate	Up to 50Hz
Resolution	18-bit
Accuracy	0.005% of reading
Temperature drift	Typically 3ppm/°C
Calibration	Pre-calibrated for 0-10,000 counts (2mV/V sensor gain at full scale). Can be recalibrated using the auto (apply mass) or mV/V method. Adjustable zero offset and span
Easy setup	Intuitive text prompts facilitate easy setup
Security	Calibration and setpoint functions have independent security code access. Direct access to setpoint activation values is independently configurable
Inputs	Hold, lock, tare, batch, zero, peak hold and print remote commands
Display	LCD alphanumeric: 2 display rows, 8 digits per row (16 characters total)
Serial port	Front panel serial port (option 2 or option 4)
Buttons	5 buttons: Program, up, down and 2 menu buttons
Dimensions	101 x 45 x 119.5mm (H x W x D), mounts to 35mm DIN rail

■ ORDER CODES

Order Code	Description
GS100	GS Series
R	DIN 35 rail mount
- LV	15-48VAC / 10-72VDC power supply
- HV	85-265VAC / 95-370VDC power supply
- R	Relay outputs (2) form A
- 2	RS232 isolated output
- 4	RS485 isolated output
- A	Analog output option installed

■ OPTIONS

Order Code	Description
GS - 2	RS232 isolated serial output
GS - 4	RS485 isolated serial output
GS - A	Analog isolated source powered output (4-20mA, 1-5V)

■ DIMENSIONS

FRONT VIEW   SIDE VIEW

GS100R
Weighing

101.0 mm

45.0 mm   119.5 mm

35.0 mm DIN Rail

■ AWE - THE BEST IN THE BUSINESS

AWE has built a reputation in providing world class products and services to customers from a wide range of industries for many unique applications. All the products come with AWE Quality Guarantee- giving you the assurance that they have been tested to meet or exceed the specifications and requirements of your application.

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- **weighing equipment**
- **packaging equipment**
- **bulk materials handling**
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call the sales team at *AWE Group* to find the right solution for your individual needs.

■ AWE PRODUCT RANGE

Weighbridges	Load Cells	Scales	Crane Scales	Indicators

Packaging Equipment	Onboard Weighing	Batching Consoles	Test Weight	Maintenance

■ WHO IS "AUSTRALIAN WEIGHING EQUIPMENT GROUP"

Jeff & Trevor Baillie started Australian Weighing Equipment (or AWE) in 1981, focusing on weighing solutions based on engineering principles. Over 40 years, AWE has built its reputation as a leading supplier of robust weighing, packaging & bulk handling equipment. Our innovative engineering and continuous product developments have led to designs that will stand up to the rigours and demands of your applications.

AWE has increased its investment in manufacturing facilities with a new 3,200sq/m factory in Sydney featuring;

- A CNC Machine Shop
- Heavy Metal Fabrication Shop
- Larger work areas for our team of qualified tradesman

Acquisitions of Bradwood Packaging and Dendy Packaging and Design Engineering has increased our packaging and engineering experience.

In 2008, AWE established a manufacturing facility in China - AWE Group Packaging and Bulk Materials Handling Equipment, a purpose-built 5,000sq/m factory in Suzhou China (70kms From Shanghai).

All of the products we offer are Australian designed and manufactured under our strict quality control system in our own factories both locally and internationally.

■ AUSTRALIAN WEIGHING EQUIPMENT OFFICE LOCATIONS

Australian Weighing Equipment - Sydney Office

8 Heald Road
Ingleburn, NSW 2565

Australian Weighing Equipment - Brisbane Office

7 Darnick Street
Underwood, QLD 4119

Australian Weighing Equipment - Melbourne Office

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