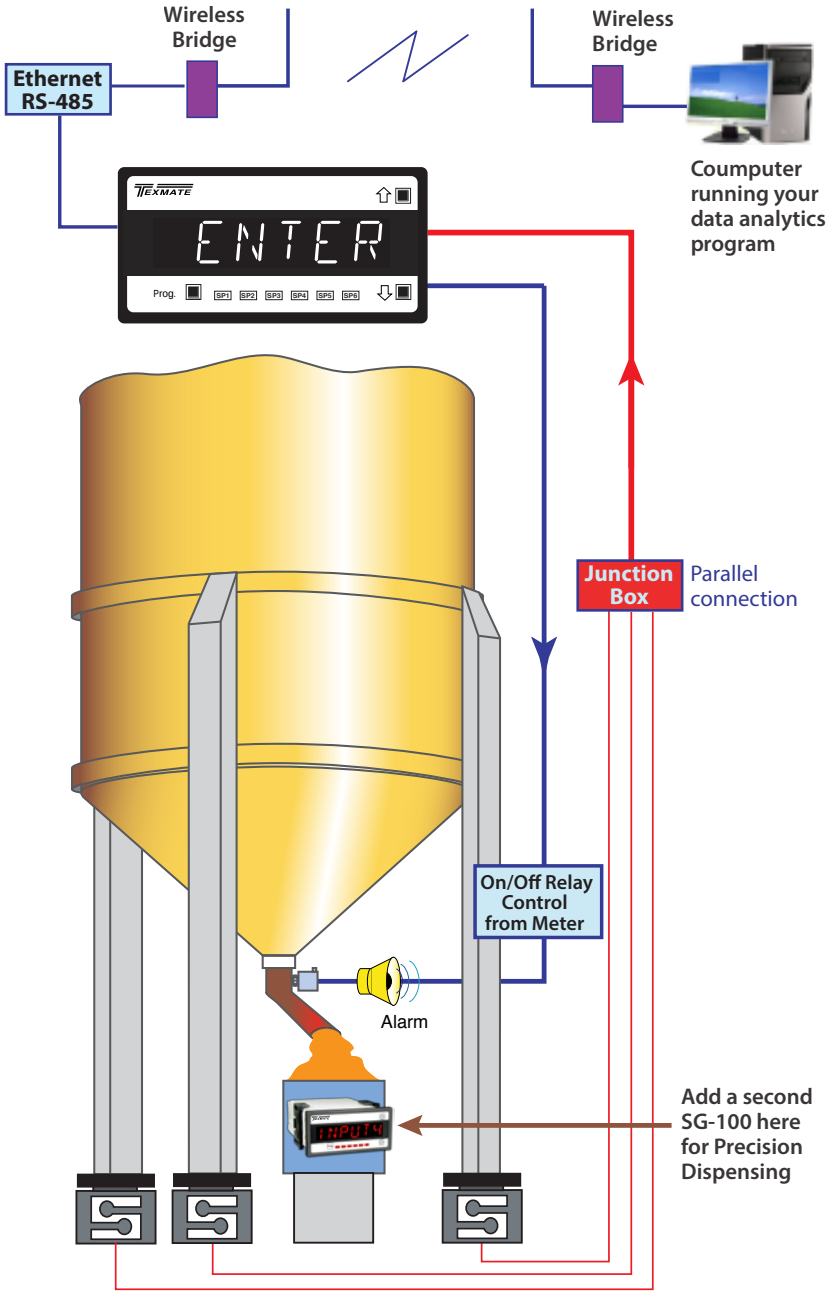
TEXMATE Smart Process Measurement Control Since 1976

SG-100 Weighing Controller

The Texmate SG100 Weighing Controller is a high performance, programmable digital weighing system delivering precise measurement and control from a load cell input. It is pre-configured with the calibration options required for common weighing applications.



Silo Weighing Application with 3 averaged support load cells, On/Off relay control dispensing, communicate data via 3rd party wireless bridges for data analytics applications.

Standard Features

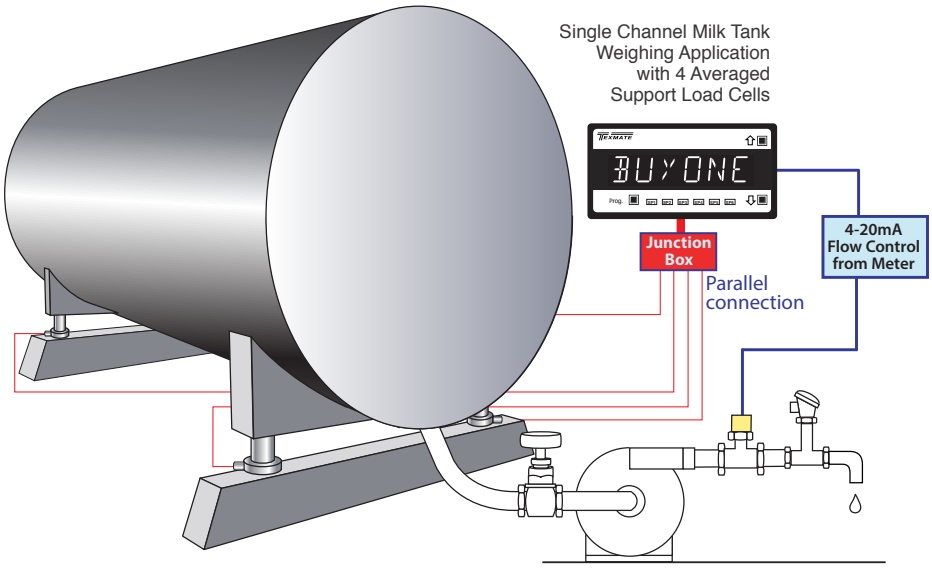
SG100-5

- 5 digit resolution
- 4 or 6 wire, 5VDC (up to 8 x 350 Ω bridges)
- Advanced averaging to balance stability & response
- Custom weighing application with easy user interface
- Selectable sample rates (1, 10 or 50Hz)
- Selectable gains (1, 2, 3, 20mV/V)
- Auto or Manual Zero Maintenance
- Auto Tare and Reset Tare (external switches)
- Four Scale Calibration Options (Auto, Test Cert, Trim Zero, Trim Span)
- Count by 2, 5 or 10 (rounding)
- RS-485 (Texmate ASCII)
- 4-20mA analog output (easily changed to 0-10VDC)
- Two 9A 250VAC FormC relays for control or alarm

SG100-6

- Same as SG100-5 but with 6 digit resolution for your high resolution needs

• For ordering info call: 1-800-TEXMATE or 760 598-9899
• Email: orders@texmate.com • 24 Hours
• For tech assistance call: (760) 598-9899
450 State Place, Escondido, CA 92029



Digital Display: SG100-5: 7-seg. alphanumeric, 0.56" (14.2 mm) LEDs.
SG100-6: 14-seg. alphanumeric, 0.56" (14.2 mm) LEDs.
Display Color: Red (standard).
Display Range: SG100-5: -19999 to 99999.
SG100-6: -199999 to 999999.
Display Update Rate: 3, 10, or 100 times per second.
Display Dimming: 8 brightness levels. Front panel selectable.
Polarity: Assumed positive. Displays – negative.
Annunciators: 6 red LEDs on front panel; one per setpoint.
Overrange Indication: OVER (customizable)
Underrange Indication: UNDER (customizable)
Front Panel Controls: PROGRAM, UP and DOWN buttons.
Excitation: 5 V DC, 130 mA maximum, eight x 350 Ω bridges.
Input Range: Software selectable for sensors from 1 mV/V to 20 mV/V.
Input Sensitivity: 0.08 µV/Count maximum.
Zero Drift: ± 40 nV/ °C typical.
Span Drift: ± 5 ppm/ ° C of full scale maximum.
Non-linearity: ± 0.003% of full scale maximum.
Input Noise: 160 nVpp typical at 1 Hz output rate.

A/D Convertors: SG100-5: 16-bit ΣΔ, 18-bit performance.
SG100-6: 24-bit ΣΔ.
Warm Up Time: Up to 10 minutes for load cell to settle.
Conversion Rate: 1, 10, 50 Hz selectable.
Control Output Rate: Can be selected for 100 msec or 10 msec.
Frequency Select: 50 Hz/60 Hz noise rejection, software selectable.
Load Cell Input: 4 or 6-wire Bridge, header selectable.
Output Modules: Plug into carrier board from rear:
(Optional) OR12: two 9A 250VAC FormC relays.
(Optional) OR34: four 4A 250VAC FormA relays.

Environmental

Operating Temperature: 0 to 50 °C (32 °F to 122 °F).
Storage Temperature: -20 °C to 70 °C (-4 °F to 158 °F).
Relative Humidity: 95% (non-condensing) at 40 °C (104 °F).

Mechanical

Case Dimensions: 1/8 DIN, 96x48 mm (3.78" x 1.89")
Case Material: 94V-0 UL rated self-extinguishing polycarbonate.
Weight: 11.5 oz (0.79 lbs), 14 oz (0.96 lbs) when packed.
Approvals: CE, UL Certified.

Model#	Base Model	Display	Power Supply	Input	Analog Output	Communication	Relay	Data Logging
SG100-5 1/8 DIN Case	■ DI-50T	■ DR (red)	■ PS1 (HV) ❑ PS2 (LV)	■ ISS2 (60Hz 16bit) ❑ ISS1 (50Hz 16bit)	■ AIC (4-20mA) ❑ ADC ❑ ADV	■ S4 RS-485 ASCII ❑ S6: RS-485 Modbus ❑ S2: RS-232 ASCII ❑ S5: RS-232 Modbus ❑ S8: Ethernet ASCII ❑ S9: Ethernet-Modbus	■ OR12 (two 9A FormC) ❑ OR34 (four 4A FormA	■ 32Kbit (88 Samples) ❑ OP-P1MB/R-T 1024Kbit (3984 samples) with Real Time Clock
SG100-6 1/8 DIN Case	■ DI-60AT	■ DR (red)	■ PS1 (HV) ❑ PS2 (LV)	■ ISS4 (60Hz 24bit) ❑ ISS3 (50Hz 24bit)	■ AIC (4-20mA) ❑ ADC ❑ ADV	■ S4 RS-485 ASCII ❑ S6: RS-485 Modbus ❑ S2: RS-232 ASCII ❑ S5: RS-232 Modbus ❑ S8: Ethernet ASCII ❑ S9: Ethernet-Modbus	■ OR12 (two 9A FormC) ❑ OR34 (four 4A FormA	■ 32Kbit (88 Samples) ❑ OP-P1MB/R-T 1024Kbit (3984 samples) with Real Time Clock

■ Factory Deault Setting