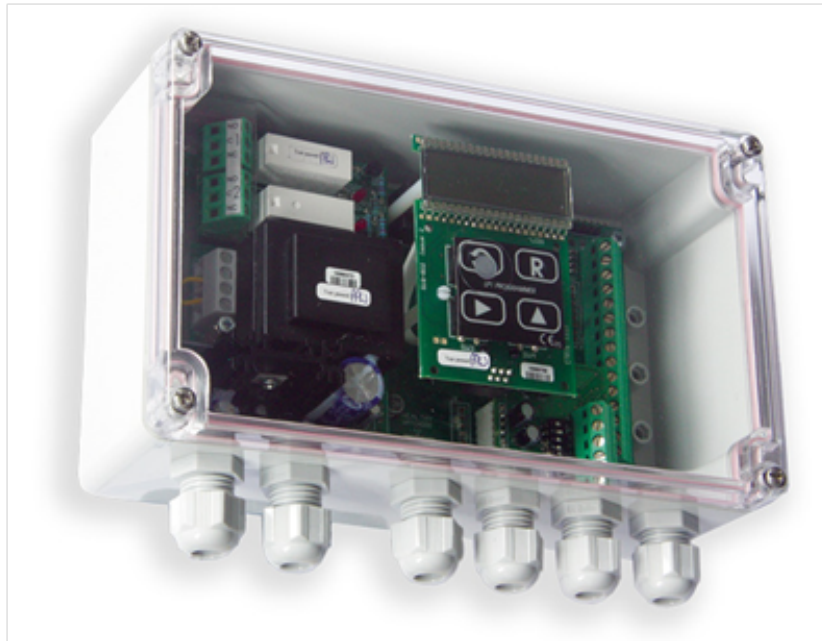




Procon Engineering

(A Division of National Oilwell Varco UK Limited)



Type GS100 MKII Weight Transmitter

**IP65 surface mount case with
Stainless Steel or Din Rail options**

**Digital inputs for auto tare, peak hold
and reset**

10 point linearisation function

Full digital set up using PC or keypad

Serial interface options available

**Internal resolution is 20 bit or 1 part
in 1,000,000**

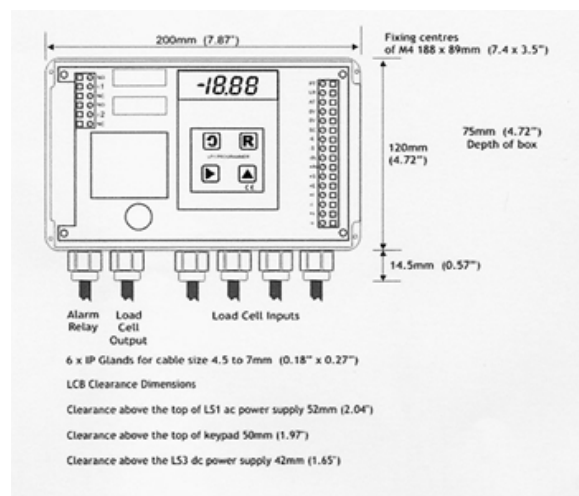
The intelligent load cell amplifier offers both fully isolated 4 - 20mA and 0 – 10 volt analogue outputs as standard. Ease of calibration and setting of the analogue output range, make the unit extremely user friendly; being set up by a simple hand held or on board programmer/display.

- Measurement speeds 10 / 80 samples per second
- 5V excitation supports up to 10 x 350 R load cells
- 6 wire input to compensate for barrier and cable losses
- Sensitivity from 0.5 to 7.8 mV/V
- Supplied in IP65 NEMA4 ABS protected case, Stainless Steel version or Din Rail options are available
- The GS100 MKII shown in main photo has the transparent lid option (LTL)

GS100 MKII Weight Transmitter

Technical Specification Sheet

SPECIFICATION	
Inputs	
The input is of the Load Cell/Strain Gauge type. With transducer excitation voltage of 5 volts @ 160mA to drive 10 x 350R bridges	
Compensation by \pm sense wires for cable and safety barrier losses down to 3V excitation	
Load cell sensitivity ranged 0.5 to 7.8 mV/V (2 ranges configured from keypad or communications port)	
Initial offset is no greater than $\pm 0.15\text{mV}$ (15 $\mu\text{V/V}$) which is cancelled during auto calibration	
Speed	10 and 80 samples per second (configured from keypad or communications port)
Factory mV/V calibration accuracy	$\pm 0.05\%$ FSD being typical
Drift	5 ppm per $^{\circ}\text{C}$ @2.5 mV/V typical
Non Linearity before linearisation	10 point typical
Internal resolution	20 bit or 1 part in 1,000,000
Noise free resolution @ 10Hz	17.5 bit or 1 part in 180,000
Contact inputs	Are available for auto tare, print and peak hold reset and are volt free.
Analogue Outputs	
Drive	4-20mA up to 1 Kohm and 0-10 volts up to 2mA
Accuracy	$\pm 0.15\%$ of range, typical
Resolution	As for display up to 13 bits / 4.5 digits. Settling time 350 mS to within 1% of step change
Isolation	$\pm 130\text{ V RMS}$ or DC max to analogue input or any other port
Power Supplies	
LS1	110 V-120 V AC or 220 / 230 V AC 50-60 Hz to 10W
LS3	9-32 V DC 10 W isolated
Data Retention/Protection	
Retention	20 years for set up values, minimum of 100,000 write cycles
Protection of data and function(s)	Watchdog timer giving repeat auto resets. Impending power detection and hold off. Calibration and Toolkit lock feature.
Other Options & Accessories	
2 Set Points	Output through 5 A 240 V AC SPCO Relays, with latching option
Communications Port	For data transfer or print via:-
RS485	Enabling up to 253 units to be multi-dropped
RS232	For 1 to 1 connection and standard printer drive and large displays
Printer Operation	By closure of volt free contact or continuous ASCII stream
Baud Rates	2400, 4800, 9600, 19200, 38400, 57600, 76800, 115200
Die Cast Case	Sealed to IP65 / NEMA 4 with external dimensions of 220 x 120 x 80mm max
Stainless Steel Case	Sealed to IP65 / NEMA 4 with external dimensions of 224 x 160 x 90mm
PCB only (Eurocard (LCB820))	100 x 160 x 57mm for rack or customer's enclosure
Environmental	
Storage Temperature	-20 to +70 $^{\circ}\text{C}$
Operating Temperature	-10 to 50 $^{\circ}\text{C}$
Relative Humidity	95% maximum non-condensing
CE Environmental Approvals	European EMC Directive 2004/108/EC, Low Voltage Directive 2006/95/EC



Procon Engineering's policy is one of continuous product enhancement.

We therefore reserve the right to incorporate technical modifications without prior notification. E&OE.

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