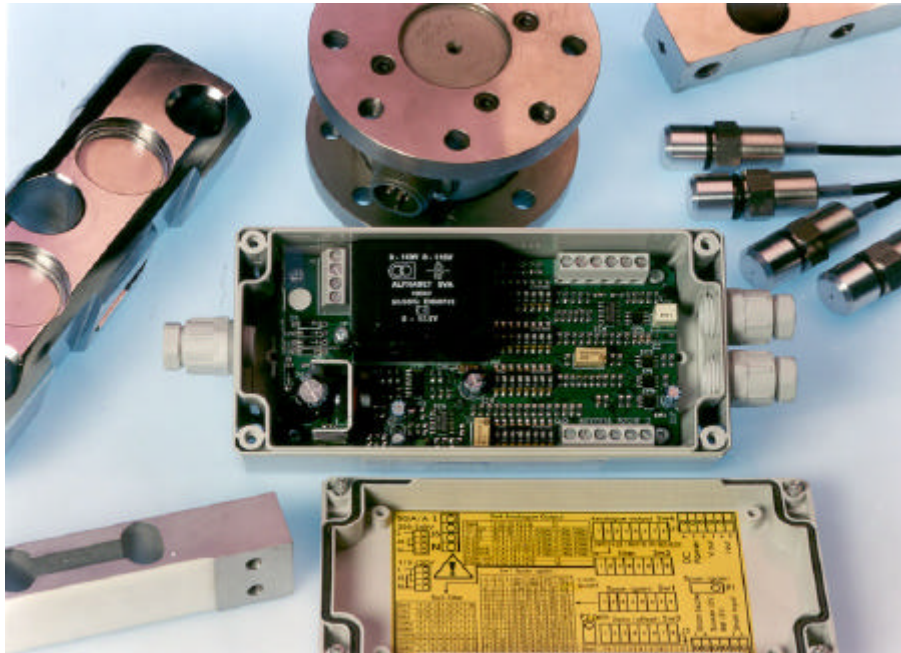


SGA strain gauge Amplifier.



A Flexible Solution

- Connect up to 4 transducers (max 350).
- Adjustable transducer sensitivity 0.1 to 30 mV/V.
- User-selectable analogue output +/- 10V, +/- 5V, 0-10V, 0-5V, 0-20 mA, 4-20 mA.
- Simultaneous voltage and current output.
- 230/110VAC or 18-24VDC power supply.
- Direct connection to a PLC, a display unit, industrial instrumentation, chart recorder, or a PC (with A/D card).
- An LVDT version of this unit is also available.

High Specification

- IP65 ABS field case with cable glands.
- Surface mount PCB.
- Wide range filtering 1Hz to 5 kHz.
- Switch selectable offset +/- 70% FS.
- Excitation: regulated 10V @ 110mA.
- 3 year manufacturer's warranty.
- Full CE approval.

Simple to use

- All parameters configurable by DIL switch.
- Clear and concise operating instructions supplied.
- An ideal product to stock.

Specifications for SGA/A & SGA/D Load Cell Amplifiers:

Parameter	Minimum	Typical	Maximum	Units
Power supply (SGA-A): (110/230Vac) 50-60Hz	99/198	110/230	120/253	V ac
Power supply dc:	18	24	28*	V dc
Power supply current dc: (depends on loading)	50	90	200	mA
Bridge excitation 350R load cell	9.5	10	10.5	V
Bridge resistance	85	-	-	Ohms
Bridge sensitivity (Switchable)	0.06	-	29	mV/V
Gain adjustment (Pot – fine adj.)	8	-	25	% FSD
Offset adjustment (pot – fine adj.)	0	-	1.25	% FSD
Offset adjustment (Switchable – coarse adj.)	1.25	-	79	% FSD
Output load (Voltage output)	-	-	2	mA
Output load (Current output)	0	-	500	Ohms
Bandwidth (No filter and >2mV/V)	D.C.	-	>6	kHz
Filter cut-off (Switchable ranges)	1	-	5000	Hz
Zero temperature coefficient	-	0.5	1	ì V/°C
Span temperature coefficient	-	0.007	0.01	%/°C
Linearity	-	0.03	0.05	% FSD
Gain stability – 1st 1000 Hours	-	0.2	0.4	% FSD
Gain stability – 2nd 2000 Hours	-	0.1	0.2	% FSD
90 day Offset stability	-	3.3	6.5	ì V
Output load stability gain (0 – 100%)	-	-	0.01	% FSD
Output load stability Offset (0 – 100%)	-	-	0.01	% FSD
Power supply rejection gain (0 – 100%)	-	-	0.01	% FSD
Power supply rejection Offset (0 – 100%)	-	-	0.01	% FSD
Common mode (unbalance ± 30%) – zero	-	TBD	-	ì V
Common mode (unbalance ± 30%) – gain	-	TBD	-	% FSD
Operating temperature range	0	-	50	°C
Storage temperature range	-20	-	70	°C
Humidity	-	-	95	%

* N.B. 18 V max at full load

Output options:

+/-10V, +/-5V, 0-10V, 0-5V, 0-20mA, 4-20mA.

Connections :

Field screw terminals – 2.5mm rising clamp.

Enclosure:

ABS casse 160x80x55 sealed to IP65 fitted with 3 off cable glands.

Controls:

Gain pot
Offset pot
Coarse gain switches
Coarse offset switches
Filter cut-off switches
Output mode switch