



Strain Gauge/Load Cell Amplifier/Signal Conditioner

Features

- Very Stable Bridge Excitation
- Selectable Sensitivity
- High Frequency Filtering
- User Selectable Analogue Outputs
- **High Specification:**
- IP65 ABS field case with cable glands
- Surface mount PCB
- Wide range filtering 1Hz to 5kHz
- Switch selectable offset $\pm 70\%$ FS
- Excitation: regulated 10V@110mA
- 3 year manufacturer's warranty
- Full CE approval



Introduction

Flexible Solution:

10v Excitation for up to 4 x 350R Strain Bridges
 Adjustable transducer sensitivity 0.1 to 30 mV/V
 User-selectable analogue output $\pm 10V$, $\pm 5V$, 0-10V, 0-5V, 0-20mA, 4-20mA

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 P (with A/D card)
 An LVDT version of this unit is also available.

Simple to use

All parameters configurable by DIL switch
 Clear and concise operating instructions supplied

An ideal product to stock

Cost Effective

Attractive discounts on quantity orders

Fast delivery times

Specifications

Parameter

Parameter	Minimum	Typical	Maximum	Units
Power supply (SGA/A):- (110/230Vac) 50 - 60Hz	-	110/230	-	V AC
Power supply DC :-	18	-	24*	V DC
Power supply IS12/24 - Isolated	9	-	36	V DC
Power supply current DC :- (depends on loading)	50	90	200	mA
Bridge excitation 350R Strain Gauge	9.5	10	10.5	V
Bridge resistance	85	-	-	Ohms
Bridge sensitivity (Switchable)	0.06	-	29	mV/V
Gain adjustment (Pot - fine adj.)	0.06	-	1.0	mV/V
Offset adjustment (Pot - fine adj.)	-1.25	-	+1.25	%FR
Offset adjustment (Switchable - coarse adj)	± 1.25	-	± 79	%FR
Output load (Voltage output)	-	-	2	mA
Output load (Current output)	0	-	500	Ohms
Bandwidth (No filter and > 2mV/V) - 3d B point	DC	-	6	kHz
Filter cut-off (Switchable ranges) - 3 d B point	1	-	5000	Hz
Zero temperature coefficient (@2.5mV/V)	-	0.002	0.009	%/ °C @ 2.5mV/V FR
Span temperature coefficient	-	0.007	0.01	%/ °C
Linearity	-	0.03	-	%FR
Gain stability -1st 1000 Hours	-	0.2	-	%FR
Gain stability - 2nd 1000 Hours	-	0.1	-	%FR
90 day Offset stability	-	3.3	-	uV
Output load stability gain (0 - 100%)	-	-	0.01	%FR
Output load stability offset (0 - 100%)	-	-	0.01	%FR
Power supply rejection gain (0 - 100%)	-	-	0.01	%FR
Power supply rejection offset (0 - 100%)	-	-	0.01	%FR
Operating temperature range	-10	-	50	°C
Storage temperature range	-20	-	70	°C
Humidity	-	-	95	%

*N.B. 18V max at full load FR= Full Range

