

SY008 Strain Gauge signal conditioner

- ◆ User selectable sensitivity to match any load cell
- ◆ Current and Voltage output options
- ◆ Easy set-up with span and zero adjustments
- ◆ Drives 4 x 350R load cells
- ◆ Compact DIN rail mounting
- ◆ High output accuracy

The SY008 is a universal strain gauge/load cell amplifier. The full scale output can be set anywhere in the range 0.25 to 4.4mV/V. An internal switch selects one of 16 ranges, fine adjustment is then made using the external span trimmer. A second external trimmer adjusts the zero level. Both trimmers have 22 turns and are non-interactive.

There are two versions available:

SY008V: Voltage out (+/-10V) and SY008I: Current out (4-20mA)

Specifications

<i>Parameter</i>	<i>Min</i>	<i>Typ</i>	<i>Max</i>
Supply voltage (DC)	17	24	30
Input sensitivity (mV/V)	4.4		0.25
Excitation voltage (V)	9.95	10	10.05
Bandwidth (-3dB)		1.5kHz	
Current consumption(mA)		68 (1.6W)	
Full scale step response (msec)		0.41	
Zero temperature drift at output (ppm/C)		20	
Span temperature drift (ppm/C)		15	
Non Linearity		0.002%	
Zero adjustment current ver. (mA)	-4		14
Zero adjustment voltage ver. (V)	-4		4
Span fine adjustment	-20%		20%
Output load Voltage version (mA)	-8		8
Output load Current version (R)	0		650
Operating temp. 1x350R cell 24V (C)	-20		100
Operating temp. 4x350R cell 24V (C)	-20		65
Storage temperature (C)	-65		125

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interface

ADVANCED FORCE MEASUREMENT

Case	Die cast Aluminium case, IP65 sealed 58 x 64 x 35mm 3-6.5mm nickel plated brass cable glands
Connections	Rising Clamp terminals with 3.5 x 2.5mm apertures

ORDER CODES

- SY008I** Bridge amplifier 4-20mA out mV range user selectable
SY008V Bridge amplifier +/-10V mV range user selectable
SYPSU24D750 24VDC 750mA DIN rail power supply other amps
SY038I Din Rail mounting Bridge amplifier 4-20mA out mV range user selectable
SY038V Din Rail Mounting Bridge amplifier +/-10V out mV range user selectable
SY008V-F SY008 voltage output strain gauge amp with Low Pass Filter

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