

SIGNAL CONDITIONERS

PROCESS SIGNAL CONDITIONERS

MODEL SG

FEATURES

The family of SG Process Signal conditioners provide an isolated linear output signal from a standard or non-standard input process signal. Factory calibrated for various input and output signals.

APPLICATIONS

- Process Control
- Signal Isolation
- Signal Conversion



MODEL SELECTION

SG - □ - □ - □ - □ - □

RATED INPUT		RATED OUTPUT		INSTRUMENT POWER		ADJUSTMENT OPTIONS	
1	0-1mA _{dc}	01	0-1mA _{dc}	H	115Vac	(BLANK)	±10% Output Span Adj. ±1% Zero Adj.
2	0-10V _{dc}	02	0-10V _{dc}	**G	230Vac		
3	0-5V _{dc}	03	0-5V _{dc}			1	50% Output Span Adj.
4	1-5V _{dc}	04	1-5V _{dc}			2	+10% Output Span Adj. 50% Zero Adj.
5	0-20mA _{dc}	05	0-20mA _{dc}			3	50% Output Span Adj. 50% Zero Adj.
6	4-20mA _{dc}	06	4-20mA _{dc}				
7	20-4mA _{dc}	07	0-5mA _{dc}				
8	10-50mA _{dc}	08	4-20mA loop powered				
		09	4-12-20mA _{dc}				

ORDERING INFORMATION

Example:
4-20mA_{dc} Input
and 0-1mA_{dc}
Output, 115Vac
Instrument Power.
SG-6-01-H

SPECIFICATIONS

INPUT.....See Table

Burden (Ω)

1mA_{dc}.....1K

5V_{dc}, 10V_{dc}, 1-5V_{dc}, 50mV_{dc}, 100mV_{dc}.....min. 100K

20mA_{dc}.....250

50mA_{dc}.....100

Over range.....2 X Rated input.

Response Time.....1ms

Dielectric Test (Input to Output) 1000V_{dc}

(Input/Output to Inst. Pwr.) 1500V_{dc}

Instrument Power..... 95-135Vac, 50-400Hz, 3.5VA

**Optional 230Vac, 50-60Hz

Optional DC Instrument Power Available. Consult factory

Termination.....14 AWG max.

OUTPUT

ACCURACY (Set Point) ± 0.25% F.S.

(Linearity)..... ± 0.1% F.S.

Load on Output (Ω)

1mA_{dc}.....0-10K

5mA_{dc}.....0-2.4K

5V_{dc}, 10V_{dc}.....>2K

1-5V_{dc}.....>2K

20mA_{dc}.....0-600

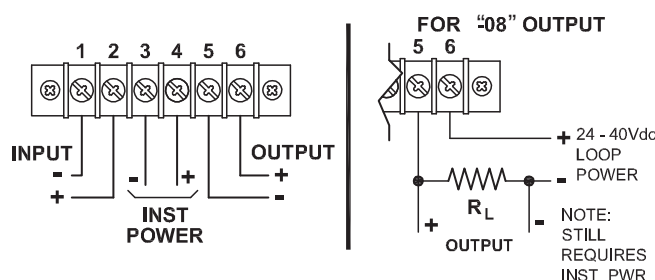
Response Time.....10ms

Ripple < ±0.5% F.S.

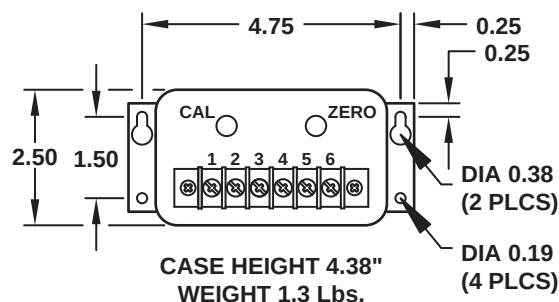
Temperature Range.....-20°C to +65°C

Temperature Effect ±0.01%/°C

CONNECTIONS



CASE DIMENSIONS



All Dimensions In Inches

FLEX-CORE®

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