

MT-SG STRAIN GAUGE Converter & Isolator

FEATURE

- 6 Popular Output Ranges Programmable by dip switches
- Load cell: 0 ~ 40.0mV / V ,4 range input by the DIP switch, easy maintain and save stock
- Low cost & high stability



SPECIFICATION

Input Range	Input Impedance	Output Range	Load Resistance
1.0 mV/V	≥ 1MΩ	0 ~ 100 mV	≥ 100KΩ
1.25 mV/V	≥ 1MΩ	0 ~ 1 V	≥ 100Ω
1.5 mV/V	≥ 1MΩ	0 ~ 5 V	≥ 500Ω
2.0 mV/V	≥ 1MΩ	0 ~ 10 V	≥ 1KΩ
3.0 mV/V	≥ 1MΩ	1 ~ 5 V	≥ 500Ω
4.0 mV/V	≥ 1MΩ	2 ~ 10 V	≥ 1KΩ
5.0 mV/V	≥ 1MΩ	-10 ~ 0 ~ +10 V	≥ 10KΩ
10.0 mV/V	≥ 1MΩ	0 ~ 1 mA	≤ 10KΩ
20.0 mV/V	≥ 1MΩ	0 ~ 10 mA	≤ 1KΩ
40.0 mV/V	≥ 1MΩ	0 ~ 20 mA	≤ 500Ω
		4 ~ 20 mA	≤ 500Ω

Accuracy: ±0.1% of F.S.
Response time: ≤ 250 mS
Span adjustment:: ≤ 10% of F.S.
Zero adjustment:: ≤ 5% of F.S.
Output ripple: ≤ 0.1% of F.S.
Excitation Supply: DC 5V/10V/24V, 40 mA, adjustable±10%

Power Supply: AC 115 or 230V ±10%, 50/60 Hz
Power consumption: DC 5W, AC 6.5VA

Operating temperature: 0~60 °C
Operating relative humidity: 20~95 %RH, non-condensing
Temperature coefficient: ≤ 100 PPM/°C
Storage temperature: -10~70 °C

Insulation resistance: ≥100MΩ @500Vdc
Surge test: 4 KV, 1.2 x 50 μ S

Dielectric Strength: AC 2KV, 50/60Hz, 1 min.

Dimensions: 51mm(W) x 122.5(H) x 84.5(D) -with socket
Mounting: Surface and DIN rail 35mm wide
Weight: 600g

ADJUSTMENT

Dip Switch: Programming for O/P - 4 Ranges selectable
O/P Span Adjust Pot (Clockwise: o/p increase)
O/P Zero Adjust Pot (Clockwise: o/p increase)

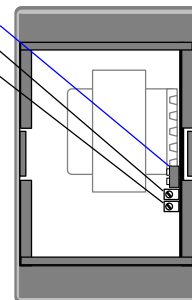
Programming for input (on input module)

INPUT mV : (CODE: P1)

SIGNAL RANGE	DIP-SWITCH (INPUT)			
	SW1	SW2	SW3	SW4
1.0 mV/V	on			
1.5 mV/V		on		
2.0 mV/V			on	
3.0 mV/V				on

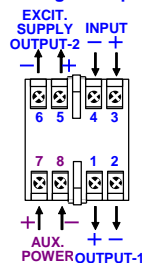
Programming for output

SIGNAL RANGE	DIP-SWITCH (OUTPUT)				
	SW1	SW2	SW3	SW4	SW5
0 ~ 5 V		on	on	on	
1 ~ 5 V	on	on	on	on	
0 ~ 10 V			on	on	
2 ~ 10 V	on		on	on	
0 ~ 20 mA					on
4 ~ 20 mA	on				on

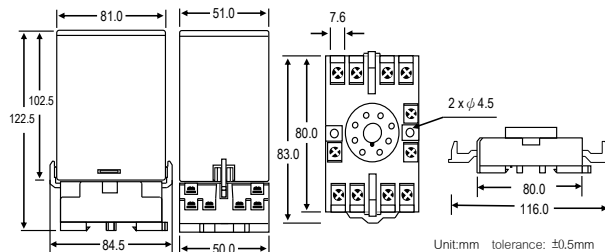


CONNECTION DIAGRAM

MT-SG WITH Analogue Output



DIMENSIONS



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ORDERING INFORMATION

