

# STRAIN GAUGE TRANSMITTER

# MT-SG

## FEATURE

- 4 Popular Input and Output Ranges Programmable in One
- Modular Design, Easy Maintain and Save Stock
- Changeable Input Module Between V/mA, Pt100, Potentiometer, Strain Gauge and Output Module Between V/mA, Trip Relay with deference programming module
- CE Approved

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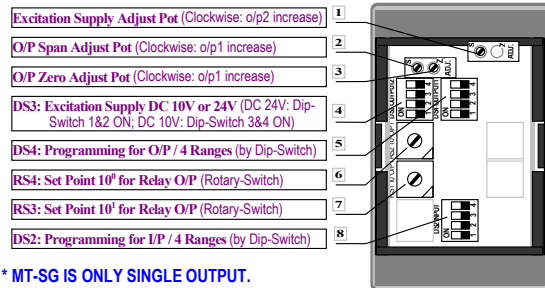
## SPECIFICATION

Input Range	Input Impedance	Output Range	Load Resistance
1.0 mV/V	≥ 1M ohm	0 ~ 100 mV	≥ 100K ohm
1.25 mV/V	≥ 1M ohm	0 ~ 1 V	≥ 50 ohm
1.5 mV/V	≥ 1M ohm	0 ~ 5 V	≥ 250 ohm
2.0 mV/V	≥ 1M ohm	0 ~ 10 V	≥ 500ohm
3.0 mV/V	≥ 1M ohm	1 ~ 5 V	≥ 250 ohm
4.0 mV/V	≥ 1M ohm	2 ~ 10 V	≥ 500ohm
5.0 mV/V	≥ 1M ohm	-10 ~ 0 ~ +10 V	≥ 1K ohm
10.0 mV/V	≥ 1M ohm	0 ~ 1 mA	≥ 15K ohm
20.0 mV/V	≥ 1M ohm	0 ~ 10 mA	≥ 1500 ohm
50.0 mV/V	≥ 1M ohm	0 ~ 20 mA	≥ 750 ohm
		4 ~ 20 mA	≥ 750ohm

- Accuracy: ±0.1% of R.O.
- Response time: ≤ 250 msec.
- Span adjustment: ≤ 10% of R.O.
- Zero adjustment: ≤ 5% of R.O.
- Output ripple: ≤ 0.1% of R.O.
- Excitation Supply: DC 10V or 24V, 40 mA, adjustable ±10%  
10V / 24V changeable by DS3
- Relay contact: AC 110V/1A, 220V/0.5A, Normal Open
- Power Supply: AC 115 or 230V ±10%, 50/60 Hz  
Changeable by jumper inside  
Option: DC 12V, 24V, 48V ±10%, (Isolated)
- Power consumption: DC 5W, AC 6.5VA
- Operating temperature: 0~60 °C
- Operating relative humidity: 20~95 %RH
- Temperature coefficient: ≤ 100 PPM/°C
- Storage temperature: -10~70 °C
- Isolation: Between Power / Input / Output / Excit. Supply  
≥ 100M ohm at 500Vdc
- Insulation resistance: 4 KV, 1.2 x 50 μ sec.
- Surge test: Common mode & differential mode
- Dielectric Strength: AC 2.0 KV for 1 min
- Standard: Between Power / Input / Output / Case  
Comply with EN50081-1, EN50082-2
- Dimensions: 50mm(W) x 87mm(H) x 123mm(D) with socket
- Mounting: Surface and DIN rail 35mm wide

Weight: 600g

## ADJUSTMENT

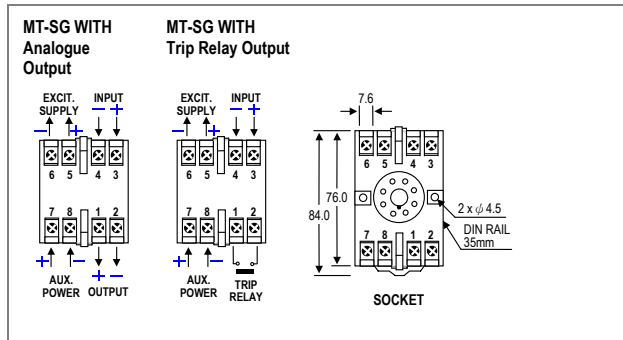


\* MT-SG IS ONLY SINGLE OUTPUT.  
PLEASE SELECT 1 ANALOGUE O/P OR  
1 TRIP RELAY O/P.

### PROGRAMMING FOR INPUT AND OUTPUT:

INPUT SIGNAL	INPUT DS1	INPUT DS2(8)	OUTPUT SIGNAL	OUTPUT DS4(5)	TRIP RELAY SET	TRIP RELAY RS1(7)	TRIP RELAY RS2(6)
1.0 mV/V	NA		1 ~ 5 V		99%		
1.5 mV/V	NA		0 ~ 10 V		75%		
2.0 mV/V	NA		0 ~ 20 mA		20%		
3.0 mV/V	NA		4 ~ 20 mA		0%		

## CONNECTION DIAGRAM & SOCKET



## ORDER INFORMATION

