

SIGNAL TRANSMITTER & DISTRIBUTER

MT-VI

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 difference programming module
- Dual difference signal output available even for trip relay
- CE Approved

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SPECIFICATION

Input Range	Input Impedance	Output Range	Load Resistance
0 ~ 10 mV	≥ 1M ohm	0 ~ 100 mV	≥ 100K ohm
0 ~ 50 mV	≥ 1M ohm	0 ~ 1 V	≥ 50 ohm
0 ~ 100 mV	≥ 1M ohm	0 ~ 5 V	≥ 250 ohm
0 ~ 1 V	≥ 1M ohm	0 ~ 10 V	≥ 500ohm
0 ~ 5 V	≥ 1M ohm	1 ~ 5 V	≥ 250 ohm
0 ~ 10 V	≥ 1M ohm	2 ~ 10 V	≥ 500ohm
1 ~ 5 V	≥ 1M ohm	-10 ~ 0 ~ +10 V	≥ 1K ohm
2 ~ 10 V	≥ 1M ohm	0 ~ 1 mA	≥ 15K ohm
-10 ~ 0 ~ +10 V	≥ 1M ohm	0 ~ 10 mA	≥ 1500 ohm
0 ~ 150 V	≥ 1M ohm	0 ~ 20 mA	≥ 750 ohm
0 ~ 300 V	≥ 1M ohm	4 ~ 20 mA	≥ 750ohm
0 ~ 600 V	≥ 1M ohm		
0 ~ 100 μA	≥ 1000 ohm		
0 ~ 1 mA	≥ 100 ohm		
0 ~ 10 mA	≥ 20 ohm		
0 ~ 20 mA	≥ 10 ohm		
4 ~ 20 mA	≥ 10 ohm		
0 ~ 1 A	≥ 0.05 ohm		
0 ~ 5 A	≥ 0.02 ohm		

- 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.
- Power Supply: AC 115 or 230V ±10%, 50/60 Hz
- Changeable by jumper inside
- Option: DC 12V, 24V, 48V ±10%, (Isolated)
- Option function: Reverse output, Limit output, Square root
- Excitation supply: DC 10V/24V, 40mA; changeable by dip switch
- Relay contact: AC 110V/1A, 220V/0.5A, Normal Open
- DC 5W, AC 6.5VA
- Power consumption: DC 11W, 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 / Output1 / Output2
- Insulation resistance: ≥ 100M ohm at 500Vdc
- Surge test: 4 KV, 1.2 x 50 μ sec.
- Common mode & differential mode
- Dielectric Strength: AC 2.0 KV for 1 min

Standard:

Dimensions:

Mounting:

Weight:

Between Power / Input / Output / Case

Comply with EN50081-1, EN50082-2

50mm(W) x 87mm(H) x 123mm(D)-with socket

Surface and DIN rail 35mm WIDE

600g

ADJUSTMENT

O/P 2 Span Adjust Pot (Clockwise: o/p2 increase)

O/P 2 Zero Adjust Pot (Clockwise: o/p2 increase)

O/P 1 Span Adjust Pot (Clockwise: o/p1 increase)

O/P 1 Zero Adjust Pot (Clockwise: o/p1 increase)

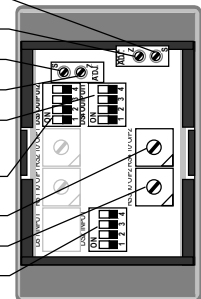
DS4: Programming for O/P 1 / 4 Ranges (by Dip-Switch)

DS3: Programming for O/P 2 / 4 Ranges (by Dip-Switch)
Or Excitation Supply DC 10V or 24V(DC 24V;
Dip-Switch 1&2 ON; DC 10V: Dip-Switch 3&4 ON)

RS4: Set Point 10⁰ for Relay O/P 2 (Rotary-Switch)

RS3: Set Point 10⁰ for Relay O/P 1 (Rotary-Switch)

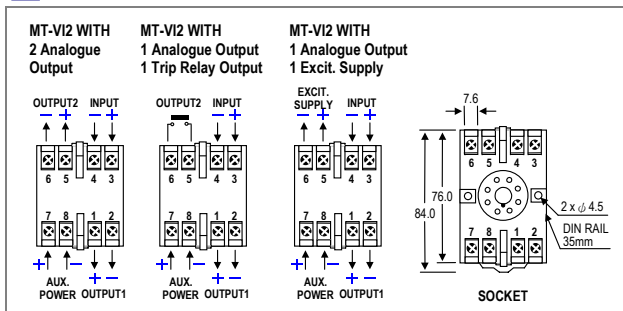
DS2: Programming for I/P / 4 Ranges (by Dip-Switch)



PROGRAMMING FOR INPUT AND OUTPUT:

SIGNAL RANGE	DS1	DS2(1)	DS4(5)	DS3(4)	TRIP RELAY 2	
					SET RS3(2) RS4(3)	
1 ~ 5 V	NA				99%	
0 ~ 10V	NA				75%	
0 ~ 20 mA	NA				20%	
4 ~ 20 mA	NA				0%	

CONNECTION DIAGRAM & SOCKET



ORDER INFORMATION

MT-VI		Output Loop	Input Type	Option	Input Range	Output1 Range	Output2 Range	Aux. Power	
CODE	OUTPUT LOOP	CODE	OPTION	CODE	INPUT	CODE	OUTPUT	CODE	AUX. POWER
1	Single Output	D	DC	A1	0 ~ 100 μA	V1	0 ~ 50 mV	A1	AC 115 V
2	Dual Output	A	AC	A2	0 ~ 1 mA	V2	0 ~ 100 mV	A2	AC 230 V
		T	TRMS	A3	0 ~ 10 mA	V3	0 ~ 1 V	D12	DC 12 V
		R	Reverse O/P	A4	0 ~ 20 mA	V4	0 ~ 5 V	D24	DC 24 V
		L	Limiter	A5	4 ~ 20 mA	V5	0 ~ 10 V	D48	DC 48 V
		S	Square Root	A6	0 ~ 1 A	V6	1 ~ 5 V	O	Specify
		N	None	A7	0 ~ 5 A	V7	2 ~ 10 V		
				P	Programmable 4 Ranges: 1-5V/0-10V 0-20mA/4-20mA	V8	-10 ~ +10 V		
					VA	0 ~ 150 V			
					VB	0 ~ 300 V			
					VC	0 ~ 600 V			
				O	Specify	O	Specify		

Note: Every unit is calibrated and programmed in

factory accord order, unit opened by customer for re-program may loose the unit guarantee.