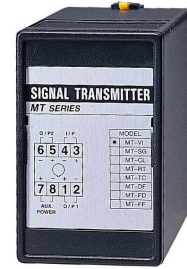


MT-VI SIGNAL CONVERTER & ISOLATOR

FEATURE

- 5 Popular Input and Output Ranges Programmable by dip switches
- Changeable Input Module Between V/mA, Pt100, Potentiometer, Strain Gauge, easy maintain and save stock
- Dual difference signal output available
- Low cost & high stability
- CE Approved



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 μ A	≤ 1000 ohm		
0 ~ 1 mA	≤ 100 ohm		
0 ~ 10 mA	≤ 250 ohm		
0 ~ 20 mA	≤ 250 ohm		
4 ~ 20 mA	≤ 250 ohm		
0 ~ 1 A	≤ 0.05 ohm		
0 ~ 5 A	≤ 0.02 ohm		

Accuracy:	±0.1% of F.S.
Response time:	≤ 250 msec.
Span adjustment:	≤ 10% of F.S.
Zero adjustment:	≤ 5% of F.S.
Output ripple:	≤ 0.1% of F.S.
Power Supply:	AC 115 or 230V ±10%, 50/60 Hz AC 380 or 415V ±10%, 50/60 Hz Option: DC 12V, 24V, 48V ±10%, (Isolated) DC 5W, AC 6.5VA
Excitation supply:	DC 10V/24V, 40mA; changeable by dip switch
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
Isolation:	Between Power / Input / Output1 / Output2
Insulation resistance:	≥ 100M ohm at 500Vdc
Surge test:	4 KV, 1.2 x 50 μ sec.
Dielectric Strength:	Common mode & differential mode AC 2.0 KV for 1 min Between Power / Input / Output / Case

Standard:

Dimensions:

Mounting:

Weight:

Comply with EN50081-1, EN50082-2

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

Surface and DIN rail 35mm WIDE

600g

ADJUSTMENT

Dip Switch: Programming for O/P 1 - 6 Ranges selectable

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

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

Dip Switch: Programming for O/P 2 - 6 Ranges selectable

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

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

Programming for input (on input module)

INPUT V / mA : (CODE: P1)	
SIGNAL RANGE	DIP-SWITCH (INPUT)
	SW1 SW2 SW3 SW4
0 ~ 5 V	on on on on
1 ~ 5 V	on on on on
0 ~ 10 V	on on on on
2 ~ 10 V	on on on on
0 ~ 20 mA	on on on on
4 ~ 20 mA	on on on on

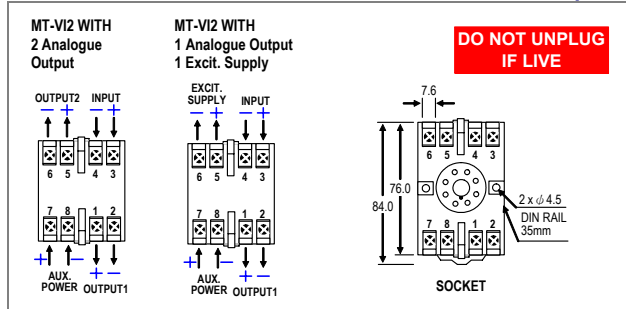
INPUT mV : (CODE: P2)

SIGNAL RANGE	DIP-SWITCH (INPUT)
	SW1 SW2 SW3 SW4
0 ~ 50 mV	on on on on
0 ~ 60 mV	on on on on
0 ~ 75 mV	on on on on
0 ~ 100 mV	on on on on
0 ~ 150 mV	on on on on
0 ~ 200 mV	on on on on

Programming for output

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

CONNECTION DIAGRAM & SOCKET(8 PIN)



ORDERING INFORMATION

MT-VI		Output Loop	Input Type	Input Range	Output1 Range	Output2 Range	Aux. Power						
				Current	Voltage	Current	Voltage	Aux. Power					
CODE	OUTPUT LOOP	CODE	OPTION	CODE	INPUT	CODE	INPUT	CODE	OUTPUT	CODE	OUTPUT	CODE	AUX. POWER
1	Single Output	D	DC	A1	0 ~ 100 μ A	V1	0 ~ 50mV (*P2)	A	0 ~ 1 mA	1	0 ~ 100 mV	A1	AC 115 V
2	Dual Output	A	AC	A2	0 ~ 1 mA	V2	0 ~ 100mV(*P2)	B	0 ~ 10 mA	2	0 ~ 1 V	A2	AC 230 V
		T	TRMS	A3	0 ~ 10 mA	V3	0 ~ 1 V	C	0 ~ 20 mA	3	0 ~ 5 V	A3	AC 380 V
				A4	0 ~ 20 mA(*P1)	V4	0 ~ 5 V (*P1)	D	4 ~ 20 mA	4	0 ~ 10 V	A4	AC 415 V
				A5	4 ~ 20 mA(*P1)	V5	0 ~ 10 V (*P1)	E	Excitation Supply	5	1 ~ 5 V	D12	DC 12 V
				A6	0 ~ 1 A	V6	1 ~ 5 V (*P1)	I	Specify (mA o/p)	6	2 ~ 10 V	D24	DC 24 V
				A7	0 ~ 5 A	V7	2 ~ 10 V (*P1)	P	Programmable 6 ranges (by D-S): 4-20/0-20 mA 0-5/0-10/1-5/ 2-10 V	7	-10 ~ +10 V	D48	DC 48 V
				AO	Specify (mA i/p)	V8	-10 ~ +10 V			V	Specify (Vo/p)	D11	DC 110 V
				P1	Prog. 6 Ranges (by D-S) V/mA	VA	0 ~ 150 V			N	None	DO	Specify DC
				P2	Prog. 6 Ranges (by D-S) 0-200mV	VB	0 ~ 300 V					AO	Specify AC
						VC	0 ~ 600 V	*Difference output range available					
						VO	Specify (V i/p)						

Remark:

➢ When you select coding P1, P2 or P for input and output range, please specify initial range.

➢ After change input or output range by dip switches (D-S), re-calibration is to be requested.