

MT-VI DC 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

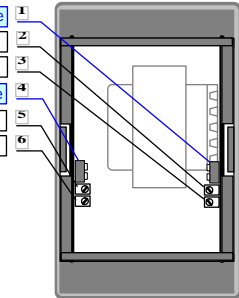
Input Range	Input Impedance	Output Range	Load Resistance
0 ~ 10 mV	≥ 1M ohm	0 ~ 100 mV	≥ 100K ohm
0 ~ 50 mV	≥ 1M ohm	0 ~ 1 V	≥ 100 ohm
0 ~ 100 mV	≥ 1M ohm	0 ~ 5 V	≥ 500 ohm
0 ~ 1 V	≥ 1M ohm	0 ~ 10 V	≥ 1K ohm
0 ~ 5 V	≥ 1M ohm	1 ~ 5 V	≥ 500 ohm
0 ~ 10 V	≥ 1M ohm	2 ~ 10 V	≥ 1K ohm
1 ~ 5 V	≥ 1M ohm	-10 ~ 0 ~ +10 V	≥ 10K ohm
2 ~ 10 V	≥ 1M ohm	0 ~ 1 mA	≤ 10K ohm
-10 ~ 0 ~ +10 V	≥ 1M ohm	0 ~ 10 mA	≤ 1K ohm
0 ~ 150 V	≥ 1M ohm	0 ~ 20 mA	≤ 500 ohm
0 ~ 300 V	≥ 1M ohm	4 ~ 20 mA	≤ 500 ohm
0 ~ 600 V	≥ 1M ohm		
0 ~ 100µA	≤ 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 10V/24V, 40mA; changeable by dip switch
Excitation supply:
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.
 Common mode & differential mode
Dielectric Strength: AC 2.0 KV for 1 min
 Between Power / Input / Output / Case

- Standard:** 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

- 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)

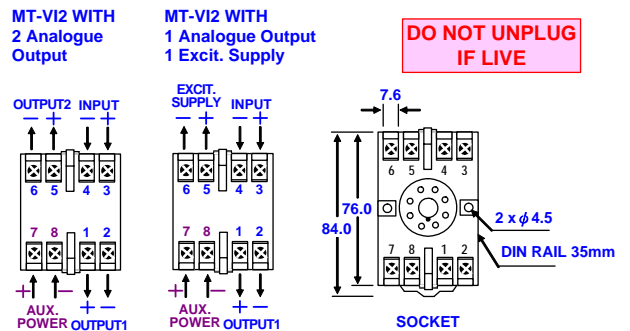
INPUT V / mA : (CODE: P1)				
SIGNAL RANGE	SW1	SW2	SW3	SW4
0 ~ 5 V			on	
1 ~ 5 V	on		on	
0 ~ 10 V		on		
2 ~ 10 V	on	on		
0 ~ 20 mA				on
4 ~ 20 mA	on			on

INPUT mV : (CODE: P2)				
SIGNAL RANGE	SW1	SW2	SW3	SW4
0 ~ 50 mV	on			
0 ~ 60 mV		on		
0 ~ 75 mV			on	
0 ~ 100 mV				on
0 ~ 150 mV	on			
0 ~ 200 mV	on		on	

Programming for output

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

CONNECTION DIAGRAM & SOCKET



ORDERING INFORMATION

MT-VI		Output Loop	Input Type	Input Range	Output1 Range	Output2 Range	Aux. Power		
CODE	OUTPUT	CODE	OPTION	Current	Voltage	Current	Voltage	CODE	AUX. POWER
1	Single Output	D	DC	A1	0 ~ 100 µA	V1	0 ~ 50mV (*P2)	A1	AC 115 V
2	Dual Output	A	AC	A2	0 ~ 1 mA	V2	0 ~ 100mV(*P2)	A2	AC 230 V
		T	TRMS	A3	0 ~ 10 mA	V3	0 ~ 1 V		
				A4	0 ~ 20 mA(*P1)	V4	0 ~ 5 V (*P1)		
				A5	4 ~ 20 mA(*P1)	V5	0 ~ 10 V (*P1)		
				A6	0 ~ 1 A	V6	1 ~ 5 V (*P1)		
				A7	0 ~ 5 A	V7	2 ~ 10 V (*P1)		
				AO	Specify (mA i/p)	V8	-10 ~ +10 V		
				P1	Prog. 6 Ranges (by D-S) V/mA	VA	0 ~ 150 V		
				P2	Prog. 6 Ranges (by D-S)0~200mV	VB	0 ~ 300 V		
						VC	0 ~ 600 V		
						VO	Specify (V i/p)		
									D12 DC 12 V
									D24 DC 24 V
									D48 DC 48 V
									D11 DC 110 V
									DO Specify DC
									AO Specify AC

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.

*Difference output range available