

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

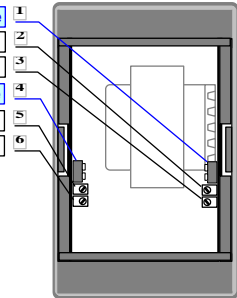
Input Range	Input Impedance	Output Range	Load Resistance
0 ~ 10 mV	≥ 1M ohm	0 ~ 100 mV	≥ 100K ohm
0 ~ 50 mV	≥ 1M ohm	0 ~ 1 V	≥ 100 ohm
0 ~ 100 mV	≥ 1M ohm	0 ~ 5 V	≥ 500 ohm
0 ~ 1 V	≥ 1M ohm	0 ~ 10 V	≥ 1K ohm
0 ~ 5 V	≥ 1M ohm	1 ~ 5 V	≥ 500 ohm
0 ~ 10 V	≥ 1M ohm	2 ~ 10 V	≥ 1K ohm
1 ~ 5 V	≥ 1M ohm	-10 ~ 0 ~ +10 V	≥ 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	≤ 750 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 50µ sec.
- Common mode & differential mode
AC 2.0 KV for 1 min
Between Power / Input / Output / Case
- Dielectric Strength:**

- 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	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)

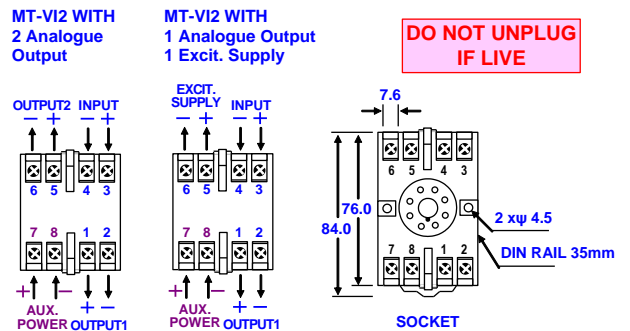
SIGNAL RANGE	DIP-SWITCH (INPUT)
	SW1 SW2 SW3 SW4
0 ~ 50 mV	on on on on
0 ~ 60 mV	on on on on
0 ~ 75 mV	on on on on
0 ~ 100 mV	on on on on
0 ~ 150 mV	on on on on
0 ~ 200 mV	on on on on

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
0 ~ 20 mA	on on on on on
4 ~ 20 mA	on on on on on

CONNECTION DIAGRAM & SOCKET



ORDERING INFORMATION

