

# MT-VI AC/DC SIGNAL Converter & Isolator

## FEATURE

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



## SPECIFICATION

Input Range	Input Impedance	Output Range	Load Resistance
0 ~ 10 mV	≥ 1MΩ	0 ~ 100 mV	≥ 100KΩ
0 ~ 50 mV	≥ 1MΩ	0 ~ 1 V	≥ 100Ω
0 ~ 100 mV	≥ 1MΩ	0 ~ 5 V	≥ 500Ω
0 ~ 1 V	≥ 1MΩ	0 ~ 10 V	≥ 1KΩ
0 ~ 5 V	≥ 1MΩ	1 ~ 5 V	≥ 500Ω
0 ~ 10 V	≥ 1MΩ	2 ~ 10 V	≥ 1KΩ
1 ~ 5 V	≥ 1MΩ	-10 ~ 0 ~ +10 V	≥ 10KΩ
2 ~ 10 V	≥ 1MΩ	0 ~ 1 mA	≤ 10KΩ
-10 ~ 0 ~ +10 V	≥ 1MΩ	0 ~ 10 mA	≤ 1KΩ
0 ~ 150 V	≥ 1MΩ	0 ~ 20 mA	≤ 500Ω
0 ~ 300 V	≥ 1MΩ	4 ~ 20 mA	≤ 500Ω
0 ~ 600 V	≥ 1MΩ		
0 ~ 100μA	≤ 1000Ω		
0 ~ 1 mA	≤ 100Ω		
0 ~ 10 mA	≤ 250Ω		
0 ~ 20 mA	≤ 250Ω		
4 ~ 20 mA	≤ 250Ω		
0 ~ 1 A	≤ 0.05Ω		
0 ~ 5 A	≤ 0.02Ω		

**Accuracy:** ±0.1% of F.S.  
**Response time:** ≤ 250 mS  
**Span adjustment::** ≤ 10% of F.S.  
**Zero adjustment::** ≤ 5% of F.S.  
**AC frequency input range:** 45~65Hz  
**Output ripple:** ≤ 0.1% of F.S.  
**Power Supply:** AC 115 or 230V ±10%, 50/60 Hz

**Excitation supply:** DC 10V/24V, 40mA  
**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

**Insulation resistance:** ≥ 100MΩ @500Vdc  
**Surge test:** 4 KV, 1.2 x 50 μ S

**Dielectric Strength:** AC 2KV, 50/60Hz, 1 min.  
 Between Power / Input / Output / Case

**Standard:** 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

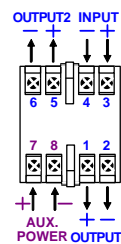
INPUT mV : ( CODE: P2 )				
SIGNAL RANGE	SW1	SW2	SW3	SW4
0 ~ 50 mV	on		on	
0 ~ 60 mV		on		
0 ~ 75 mV			on	
0 ~ 100 mV				on
0 ~ 150 mV	on	on		
0 ~ 200 mV	on		on	on

Programming for output

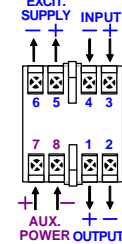
OUTPUT V / mA : ( CODE: P )					
SIGNAL RANGE	SW1	SW2	SW3	SW4	SW5
0 ~ 5 V		on	on	on	
1 ~ 5 V	on	on	on	on	
0 ~ 10 V		on	on	on	
2 ~ 10 V	on	on	on	on	
0 ~ 20 mA					on
4 ~ 20 mA	on				on

## CONNECTION DIAGRAM & SOCKET

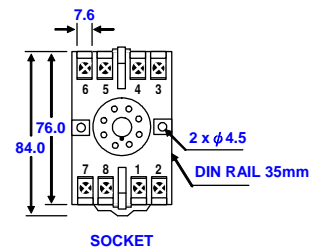
MT-VI2 WITH 2 Analogue Output



MT-VI2 WITH 1 Analogue Output 1 Excit. Supply



DO NOT UNPLUG IF LIVE



## ORDERING INFORMATION

