

DC/AC/Trms SIGNAL TRANSMITTER & ISOLATOR

TX8-VI

FEATURES

- Measures AC: 1~600V, 0-5A* DC: 0~1/10/20/4~20mA, 50mV~600V, 100uA
- 5 Popular Input and Output Ranges Programmable
- Dual output available (isolated)
- Plugs into 8 pin Din Rail mounted base
- 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 μA	≥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 ±15%, 50/60 Hz
 AC 380 or 415V ±15%, 50/60 Hz
 Option: DC 12V, 24V, 48V ±10%, (Isolated)
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
 ≥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:

Dimensions:

Mounting:

Weight:

Complies 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	
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)

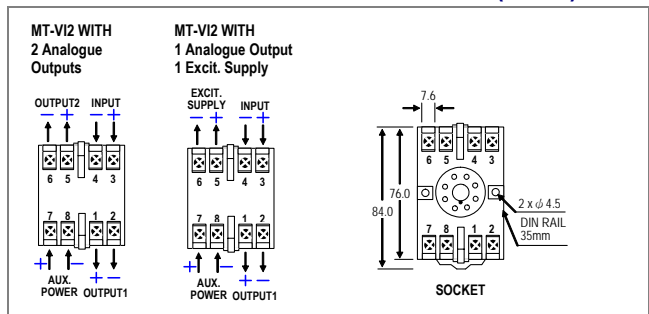
SIGNAL RANGE	DIP-SWITCH (INPUT)			
	SW1	SW2	SW3	SW4
0 - 50 mV			on	
0 - 60 mV	on		on	
0 - 75 mV		on		
0 - 100 mV	on	on		
0 - 150 mV				on
0 - 200 mV	on			on

Programming for output

OUTPUT V / mA : (CODE: P)

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

CONNECTION DIAGRAM & SOCKET(8 PIN)



ORDER CODING

TX8-VI Output No. — Input Type — Input Range — Output1 Range — Output2 Range — 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 μA	V1	0 - 50 mV	A	0 - 1 mA	1	0 - 100 mV	A1	AC 115 V
2	Dual Output	A	AC	A2	0 - 1 mA	V2	0 - 100 mV	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	V4	0 - 5 V	D	4 - 20 mA	4	0 - 10 V	A4	AC 415 V
				A5	4 - 20 mA	V5	0 - 10 V	E	Excitation	5	1 - 5 V	D12	DC 12 V
				A6	0 - 1 A*	V6	1 - 5 V	I	Specify (mA o/p)	6	2 - 10 V	D24	DC 24 V
				A7	0 - 5 A*	V7	2 - 10 V	Programmable Ranges		7	-10 - +10 V	D48	DC 48 V
				AO	Specify (mA i/p)	V8	-10 - +10 V	0-5V/-10V/1-5V/2-10V		V	Specify (Vo/p)	D11	DC 110 V
						VA	0 - 150 V	/0-20mA/4-20mA		N	None	AD1	20-90Vdc/ac
						VB	0 - 300 V					AD2	90-265Vdc/ac
						VC	0 - 600 V						
						VO	Specify (V i/p)						

* For High Current do not unplug live circuit