

4~20mA LOOP TRANSMITTER & ISOLATOR

TX8-CL

FEATURES

- Measures and Powers 4~20mA loops (Excitation 24Vdc)
- 6 Popular 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
4 ~ 20 mA	≤250 ohm	0 ~ 100 mV	≥100K ohm
		0 ~ 1 V	≥50 ohm
		0 ~ 5 V	≥250 ohm
		0 ~ 10 V	≥500ohm
		1 ~ 5 V	≥250 ohm
		-10 ~ 0 ~ +10 V	≥1K ohm
		0 ~ 1 mA	≥15K ohm
		0 ~ 10 mA	≥1500 ohm
		0 ~ 20 mA	≥750 ohm
		4 ~ 20 mA	≥750ohm

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.
Excitation Supply:	DC 24V ±5%, 30 mA
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)
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 / Output / Case ≥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:	Complies with EN50081-1, EN50082-2
Dimensions:	50mm(W) x 87mm(H) x 123mm(D) with socket
Mounting:	Surface and DIN rail 35mm wide
Weight:	500g

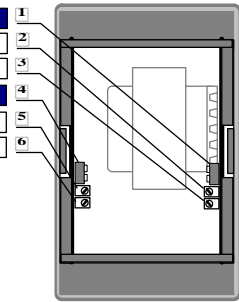
ADJUSTMENT

- 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 output

OUTPUT V / mA : (CODE: P)

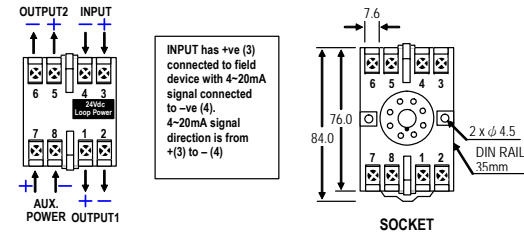
SIGNAL RANGE	DIP-SWITCH (INPUT)				
	SW1	SW2	SW3	SW4	SW5
0 ~ 5 V	on	on	on	on	
1 ~ 5 V	on	on	on	on	
0 ~ 10 V		on	on	on	
2 ~ 10 V	on		on	on	
0 ~ 20 mA					on
4 ~ 20 mA	on				on



CONNECTION DIAGRAM & SOCKET(8 PIN)

MT-CL With 1 or 2 Analogue Outputs

Excitation is always provided at terminals 3 and 4



ORDER CODING

TX8-CL [Output No.] [Output 1] [Output 2] [Aux. Power]

CODE	OUTPUT LOOP	CODE	OUTPUT	CODE	OUTPUT	CODE	AUX. POWER
1	Single Output	A	0 ~ 1 mA	1	0 ~ 100 mV	A1	AC 115 V
2	Dual Output	B	0 ~ 10 mA	2	0 ~ 1 V	A2	AC 230 V
		C	0 ~ 20 mA	3	0 ~ 5 V	A3	AC 380 V
		D	4 ~ 20 mA	4	0 ~ 10 V	A4	AC 415 V
		I	Specify (mA o/p)	5	1 ~ 5 V	D12	DC 12 V
				6	2 ~ 10 V	D24	DC 24 V
				7	-10 ~ +10 V	D48	DC 48 V
				V	Specify (Vo/p)	D11	DC 110 V
				N	None	AD1	20-90Vdc/ac
						AD2	90-265Vdc/ac