

MT-CL CURRENT LOOP SUPPLY



FEATURE

- 6 Popular Output Ranges Programmable by dip switches
- DC 4~20mA input, easy maintain and save stock
- Low cost & high stability
- Design by CE standard



SPECIFICATION

Input Range	Input Impedance	Output Range	Load Resistance
4 ~ 20 mA	$\leq 250 \Omega$	0 ~ 100 mV	$\geq 100K \Omega$
		0 ~ 1 V	$\geq 100 \Omega$
		0 ~ 5 V	$\geq 500 \Omega$
		0 ~ 10 V	$\geq 1K \Omega$
		1 ~ 5 V	$\geq 500 \Omega$
		-10 ~ 0 ~ +10 V	$\geq 10K \Omega$
		0 ~ 1 mA	$\geq 10K \Omega$
		0 ~ 10 mA	$\leq 1K \Omega$
		0 ~ 20 mA	$\leq 500 \Omega$
		4 ~ 20 mA	$\leq 500 \Omega$

Accuracy: $\pm 0.1\%$ of F.S.
Response time: ≤ 250 mS
Span adjustment: $\leq 10\%$ of F.S.
Zero adjustment: $\leq 5\%$ of F.S.
Output ripple: $\leq 0.1\%$ of F.S.
Excitation Supply: DC 24V $\pm 5\%$, 30 mA
Power Supply: AC 115 or 230V $\pm 10\%$, 50/60 Hz
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: $\geq 100M \Omega @ 500Vdc$
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

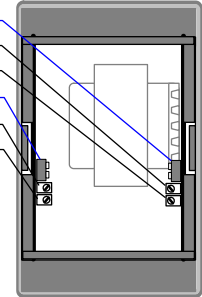
ADJUSTMENT

- 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 output

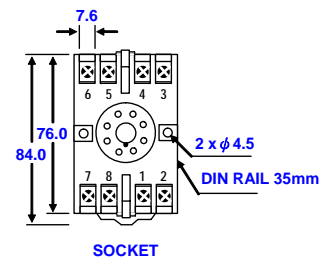
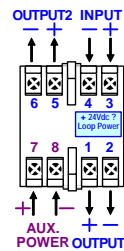
OUTPUT V / mA : (CODE: P)

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	
2 ~ 10 V	on		on	on	
0 ~ 20 mA					on
4 ~ 20 mA	on				on



CONNECTION DIAGRAM & SOCKET

MT-CL WITH
 1 or 2 Analogue Output
 1 Excitation Supply (internal serial in input terminals)



ORDERING INFORMATION



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	D12	DC 12 V
		D	4 ~ 20 mA	4	0 ~ 10 V	D24	DC 24 V
		I	Specify (mA o/p)	5	1 ~ 5 V	D48	DC 48 V
		P	Programmable 6 ranges (by D-S): 4-20/0-20 mA 0-5/0-10/1-5/ 2-10 V	6	2 ~ 10 V	D11	DC 110 V
				7	-10 ~ +10 V		
				V	Specify (Vo/p)		
				N	None		

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