

MT-CL CURRENT LOOP SUPPLY

ADTEK

■ FEATURE

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



■ 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

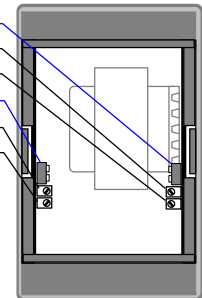
Dimensions: 51mm(W) x 122.5(H) x 84.5(D) -with socket
Mounting: Surface and DIN rail 35mm wide
Weight: 600g

■ 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)

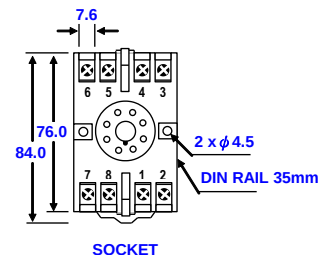
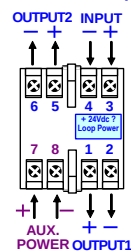
Programming for output

OUTPUT V / mA : (CODE: P)		DIP-SWITCH (INPUT)				
SIGNAL RANGE	SW1	SW2	SW3	SW4	SW5	
0 ~ 5 V	on	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	

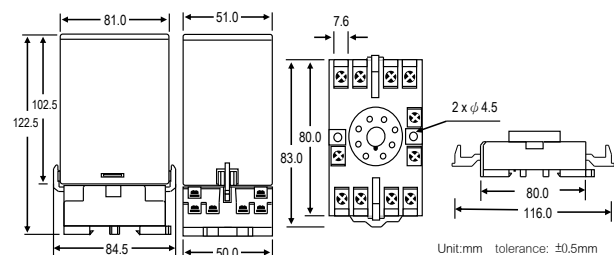


■ CONNECTION DIAGRAM & SOCKET

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



■ DIMENSIONS



ORDERING INFORMATION

MT-CL

Output Loop

Output 1 range

Output 1 range

Aux. Power

CODE	OUTPUT LOOP
1	Single Output
2	Dual Output

Current

Voltage

CODE	OUTPUT
A	0 ~ 1 mA
B	0 ~ 10 mA
C	0 ~ 20 mA
D	4 ~ 20 mA
I	Specify (mA o/p)
P	Programmable 6 ranges(by D-S): 4~20/0~20 mA 0~5/0~10/1~5/ 2~10 V

CODE	OUTPUT
1	0 ~ 100 mV
2	0 ~ 1 V
3	0 ~ 5 V
4	0 ~ 10 V
5	1 ~ 5 V
6	2 ~ 10 V
7	-10 ~ +10 V
V	Specify (Vo/p)
N	None

*Difference output range available

CODE	AUX. POWER
A1	AC 115 V
A2	AC 230 V
D12	DC 12 V
D24	DC 24 V
D48	DC 48 V
D11	DC 110 V

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.