

MT-CL CURRENT LOOP SUPPLY

■ FEATURE

- 5 Popular Output Ranges Programmable by dip switches
- Changeable Input Module Between V/mA, Pt100, Potentiometer, Strain Gauge, easy maintain and save stock
- 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	≥ 500ohm
		0 ~ 1 mA	≥ 1K ohm
		0 ~ 10 mA	≤ 15K ohm
		0 ~ 20 mA	≤ 1500 ohm
		4 ~ 20 mA	≤ 750 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.
Excitation Supply:	DC 24V ±5%, 30 mA
Power Supply:	AC 115 or 230V ±10%, 50/60 Hz AC 380 or 415V ±10%, 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
Insulation resistance:	≥ 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:	Comply 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

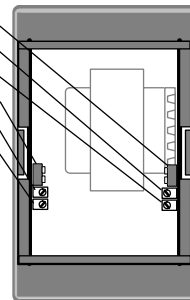
■ ADJUSTMENT

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

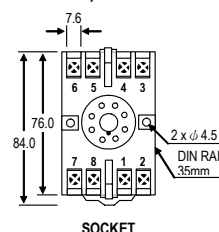
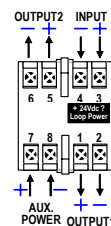


■ CONNECTION DIAGRAM & SOCKET(8 PIN)

MT-CL WITH

1 or 2 Analogue Output

1 Excitation Supply(internal serial in input terminals)



■ ORDERING INFORMATION

MT-CL — Output Loop — Output 1 range — Output 1 range — Aux. Power

CODE	OUTPUT LOOP
1	Single Output
2	Dual Output

CODE	OUTPUT	CODE	OUTPUT
A	0 ~ 1 mA	1	0 ~ 100 mV
B	0 ~ 10 mA	2	0 ~ 1 V
C	0 ~ 20 mA	3	0 ~ 5 V
D	4 ~ 20 mA	4	0 ~ 10 V
I	Specify (mA o/p)	5	1 ~ 5 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
		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
A3	AC 380 V
A4	AC 415 V

D12	DC 12 V
D24	DC 24 V
D48	DC 48 V
D11	DC 110 V

AO Specify AC

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.