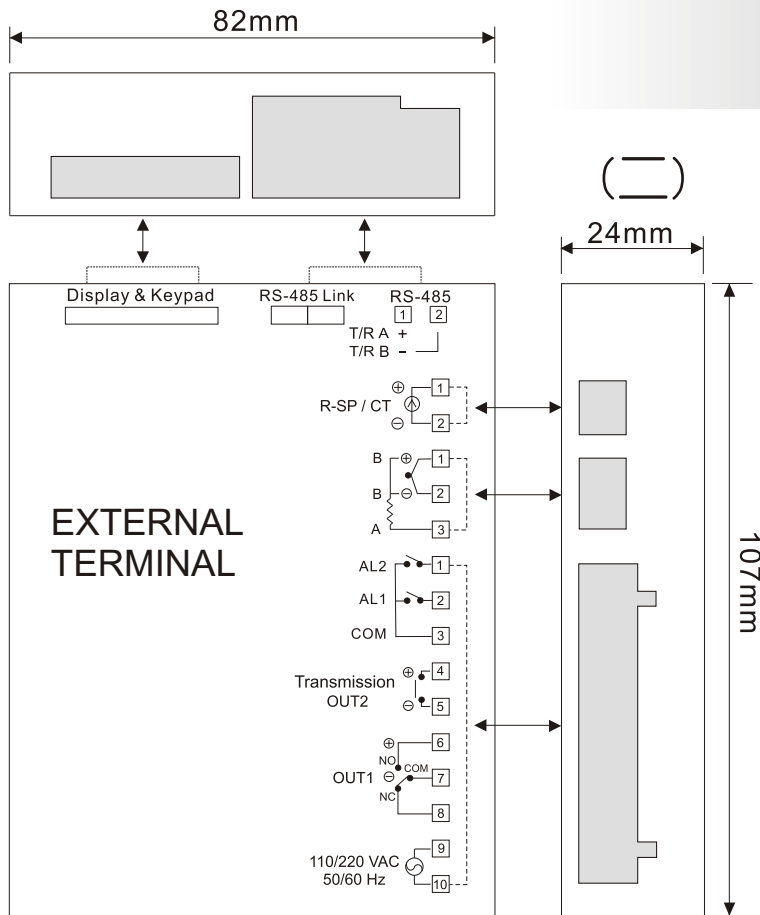# PID 溫控模組

MTC-A10

- 標準模組小型化，省空間，簡化配線。
- 多元化安裝，鋁軌/盤內/盤面。
- PID自動演算功能。
- 支援Modbus RTU通訊協定，透過RS-485 介面可連結至256個裝置。
- 雙輸出控制（加熱/冷卻）。
- 比流器功能、偵測加熱器斷線。
- 熱電偶與白金電阻可由軟體直接設定。
- 遙控設定。
- 三線式馬達閥控制。
- 再傳輸。

- Modularize, small size, saving space, and easy wiring.
- Varity installing methods : DIN rail, panel , or surface mounting.
- PID auto-tuning function.
- Support Modbus RTU communication protocol, can be linked to 256 devices through RS-485 interface.
- Dual loop output control (heating / cooling control)
- Current transformer function for heater break alarm.
- Thermocouple and Pt100Ω is selectable.
- Remote set-point.
- Open loop motor valve control.
- Retransmission output.

DIMENSION

82mm

24mm

107mm

Display & Keypad   RS-485 Link   RS-485

| 1 | 2 |

T/R A +
T/R B −

R-SP / CT   ⊕ 1
             ⊖ 2

B   ⊕ 1
B   ⊖ 2
A   3

AL2   1
AL1   2
COM   3

Transmission   ⊕ 4
OUT2   ⊖ 5

        ⊕ 6
     NO COM
OUT1   ⊖ 7
     NC
        8

110/220 VAC   9
50/60 Hz   10

EXTERNAL TERMINAL

SPECIFICATIONS

Input Signal	Type of Input	TC (K,J,T,R,E,S,B,N)
		RTD (Pt100, JPt100)
		Linear(1-5V, 4-20mA)
	Input Sampling Time	300 ms
Indication	Constant Value Storage System	Non-volatile memory (EEPROM)
Control Mode	Proportional Band (P)	0.0~3000
	Integral Time (I)	0~7200
	Derivative Time (D)	0~1800
	Cycle Time	0~150
	Dead Band	0.0~200.0
Control Output	Relay Output Relay	Contact, SPST 3A/240V AC
	Voltage Output	Voltage Pulse
	Linear Output	4~20mA, 1-5V
	Motor Control Output	Open loop motor valve
Alarm	Channel	2 Channels (Optional)
Communication	Type of Communication	RS-485 Modbus RTU protocol
General Specifications	Power Supply Voltage & Frequency	90~260V AC, 50/60Hz
	Power Consumption	<3.5VA
	Ambient Temperature	-10℃~55℃
	Ambient Humidity	0~80% RH

ORDERING INFORMATION

A TYPE	B INPUT	C OUTPUT 1	D OUTPUT 2	E ALARM
MTC-A10	1=K 7=B 2=J 8=N 3=T 9=DIN/PT 4=R A=J IN/ PT 5=E B=LINEAR 6=S	0=NONE 1=RELAY 2=PULSED 3=4~20mA 4=1~5V 5=open loop motor valve	0=NONE 1=RELAY 2=PULSED 3=4~20mA 4=1~5V 5 = Transmission	0 =NONE 1 =ALARM*1 2 =ALARM*2

F ADDITION	G COMMUNICATION	H PROGRAM	I MOUNTING	J CHANNELS
0=NONE 1=R-SP 2=CT	0=NONE 1=RS-485	0=NONE 1= PROGRAM	1=DIN RAIL 2=PANEL 3=SURFACE	1=1 CH 6=6 CH 2=2 CH 7=7 CH 3=3 CH 8=8 CH 4=4 CH 5=5 CH

EXAMPLE

A	B	C	D	E		F	G	H		I	J
MTC-A10	1	1	0	2	−	0	1	0	−	1	8

A. TYPE = MTC-A10
B. INPUT = K
C. OUTPUT 1 = RELAY
E. ALARM = ALARM*2
G. COMMUNICATION = RS-485
I . MOUNTING = DIN RAIL
J . CHANNELS = 8 CH

PV
SV