

MPC Module Type PID Controller

Feature:

- ▶ DIN rail mounting, Compact size
- ▶ Universal input/output selectable
- ▶ 10 samples per second
- ▶ 4 independent LEVEL PID
- ▶ Ramp/Soak program (16 segments profile with loop / link / jump function)
- ▶ Soft-Start function
- ▶ Digital communication with MODBUS RTU Protocol
- ▶ All parameters can be easily configured by PC with URC-1020 interface cable or EzPro hand held programmer
- ▶ PV bias / PV ratio correction



Specification

Specifications	
Input	Thermocouple: J. K. T. E. B. R. S. N.C
	RTD: DIN PT-100; JIS PT-100
	Linear: 4~20mA; 0~50mV; 1~5V; 0~10V...
Accuracy	T/C±1°C; RTD±0.2°C; Linear±3μV
Sampling Time	0.25 sec.
Control	P Control: Proportional Band: 0.0~300.0% F.S
	ON / OFF Control: Hysteresis 0~2000
Cycle Time (0~100)	Relay 15 sec.
	Current Output (SSR) 1 sec.
	Continuous Current (Voltage): 0 sec.
Output	Relay Contact Output: 10A/ 240 VAC (Resistive load)
	Pulsed Voltage Output to Drive SSR: DC 0/24V (Resistive 250Ω min.)
	Current Output: 4~20mA; (Resistive 600Ω max.)
	Continuous Voltage Output: 0~50mV; 1~5V; 0~10V... (Resistive 600Ω min.)
General	Rated Voltage: AC 90~264VAC 50 / 60Hz; DC 24V
	Ambient Temperature: 0~50°C
	Ambient Humidity: 0~90%
	Consumption: Less than 3VA

Input			
Type	Temperature	Range	
J	-50°C ~ 1000°C	-58°F ~ 1832°F	
K	-50°C ~ 1370°C	-58°F ~ 2498°F	
T	-270°C ~ 400°C	-454°F ~ 752°F	
E	-50°C ~ 750°C	-58°F ~ 1382°F	
B	0°C ~ 1800°C	32°F ~ 3272°F	
R	0°C ~ 1750°C	32°F ~ 3182°F	
S	0°C ~ 1750°C	32°F ~ 3182°F	
N	-50°C ~ 1300°C	-58°F ~ 2372°F	
C	-50°C ~ 1800°C	-58°F ~ 3272°F	
DPT	-200°C ~ 850°C	-328°F ~ 1652°F	
JPT	-200°C ~ 650°C	-328°F ~ 1202°F	
LINE		-1999 ~ 9999	

Alarm Functions	
PV High Alarm	PV Low Alarm
Deviation High Alarm	Deviation Low Alarm
Band High Alarm	Band Low Alarm
PV High Alarm with Delay Time	PV Low Alarm with Delay Time

Communication :

- Interface : Based on EIA RS-485
- Protocol : ModBus RTU mode
- Data format :
 - Start bit : 1
 - Data bit : 8
 - Parity : None
 - Stop bit : 2
- Baud Rate : 2400,4800,9600,19200 bps

Power supply : 24±4V Vdc, internal protection against polarity inversion.

Power consumption : 2 W Max.

Common mode rejection ratio : >80dB.

Operating temperature : 0 to 50°C

Humidity : 0 to 85% RH (Non-Condensing)

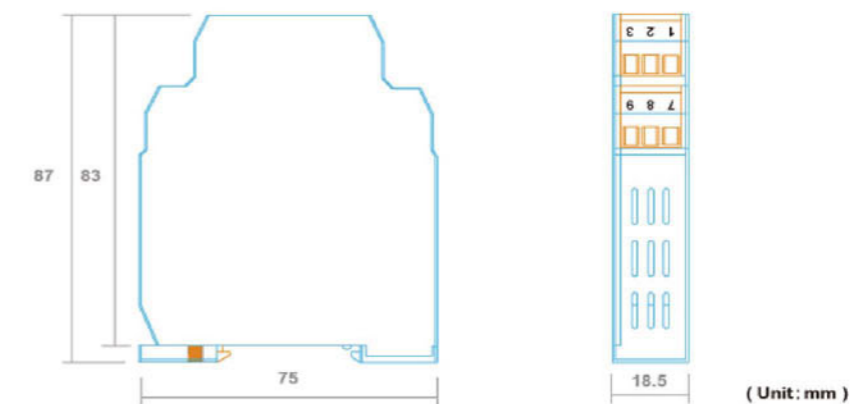
Electromagnetic compatibility (EMC): En 50081-2, En 50082-2

Dimension : shown in Figure 1.

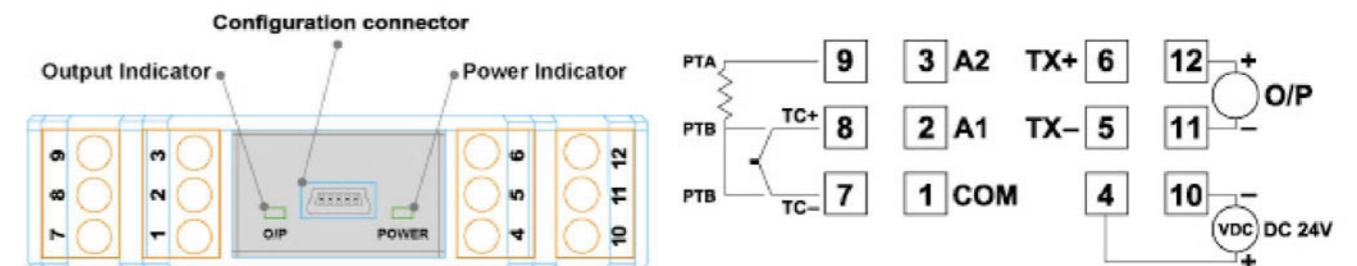
Housing material : ABS plastic. UL 94V0

Weight : 65g

Dimension



Wiring Diagram



Ordering Information

MPC			
Input	Code	Output	Code
T/C	T	SSR	R
RTD	D	4-20mA	M
Linear	L	0~10V	V