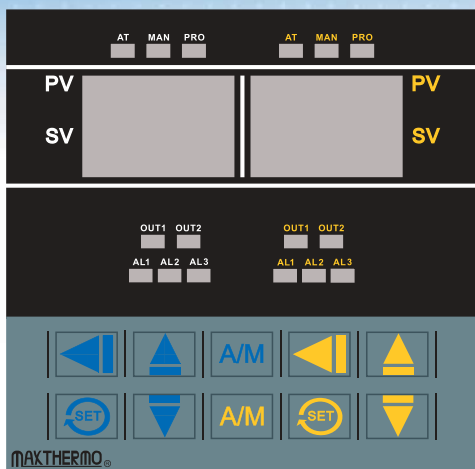


Micro-Process Dual Loop Feedback Programmable Controller

TEMPERATURE / HUMIDITY / PRESSURE CONTROLLER

Features

- 1 Dual core operation and independent dual loop feedback controlling system for applying two individual inputs.
- 2 Max. 3 sets of alarm (option) are available for each loop. The mode of each alarm can be selected by parameter.
- 3 Input signal: Linear, T/C, RTD are changeable.
- 4 Option: auxiliary 24V DC power supply for transmitter or sensor use.
- 5 Option: RS485 communication function (MODBUS RTU)
- 6 Option: SV/PV re-transmission function.



Marks	Description
PV	Process value
SV	Set value
SET	Set key & Enter key
A/M	Manual / auto exchange key
◀ ▶	Shift key
⬇ ⬆	Down key
⬆ ⬇	Up key
Marks	Description
OUT1	Output1 lamp
OUT2	Output2 lamp
AT	Auto tuning lamp
AL1	Alarm1 output lamp
AL2	Alarm2 output lamp
AL3	Alarm3 output lamp
MAN	Manual running lamp
PRO	Program running lamp



Specification and panel function

Dimension	96x96mm			
Supply voltage	AC 85~265V, DC 15~50V			
Frequency	50/60Hz			
Control Action	PID, P, PI, PD, ON/OFF(P=0)			
Input	Accuracy: 0.2% FS. Sample time 250 ms			
(TC) (RTD)	Type	Range	Type	Range
	K	0~1200°C	B	0~1800°C
	J	0~1200°C	N	-200~1300°C
	T	-200~400°C	PT	-200~800°C
	R	0~1700°C	JPT	-200~500°C
	E	0~1000°C	Analog	-1999~9999°C
	S	0~1700°C		
mA DC	0~20mA, 4~20mA			
VDC	0~20mV, 0~50mV, 0~5V, 0~10V, 1~5V, 1~10V, 2~10V			
Ambient temperature range	-10°C/0~50°C			
Ambient humidity range	20~90%RH9(Non condensing)			
Control output				
Relay	SPDT(3A/240VAC)			
SSR	ON:24V , OFF:0V , Maximum load current:20mA			
mA DC	4~20mA, Maximum load resistance 300Ω			
mV DC, VDC	0~5V, 0~10V, 1~5V,2~10V. Maximum load current 20mA			
Alarm				
Relay	SPDT/SPST(3A/240VAC)			
Communication				
Communication protocol	RS485 MODBUS RTU			

Order information

MC - 2938 -

SET1	4	1	0	1	1
A	B	C	D	E	

 -

SET2	4	1	0	2	0
F	G	H	I	J	

A. Input Signal :

- | | |
|-------|------------|
| 1 - S | A - PT100Ω |
| 2 - B | B - 0~20mV |
| 3 - R | C - 0~50mV |
| 4 - K | D - 0~5V |
| 5 - E | E - 0~10V |
| 6 - T | F - 4~20mA |
| 7 - J | |
| 8 - N | |

B. Output1:

- | | |
|------------------------------|-----------|
| 0 - None | A - 0~5V |
| 1 - Relay, contact SPDT | B - 0~10V |
| 3A/240VAC | C - 1~5V |
| 2 - Volt, voltage pulse, SSR | D - 2~10V |
| (24VDC/20mA) | |
| 3 - mA Current, 4~20mA | |

C. Output2:

- | | |
|------------------------------|--|
| 0 - None | |
| 1 - Relay, contact SPDT | |
| 3A/220VAC | |
| 2 - Volt, voltage pulse, SSR | |
| (24VDC/20mA) | |
| 3 - Current, 4~20mA | |

D. Alarm:

- | |
|------------|
| 0 - None |
| 1 - 1 set |
| 2 - 2 sets |
| 3 - 3 sets |

E. Additional Function:

- | |
|----------------------------|
| 0 - None |
| 1 - RS485 |
| A - 4~20mA(Retransmission) |
| B - 0~20mA(Retransmission) |
| C - 0~5V(Retransmission) |
| D - 0~10V(Retransmission) |
| E - 1~5V(Retransmission) |

F. Input Signal:

- | | |
|-------|------------|
| 1 - S | A - PT100Ω |
| 2 - B | B - 0~20mV |
| 3 - R | C - 0~50mV |
| 4 - K | D - 0~5V |
| 5 - E | E - 0~10V |
| 6 - T | F - 4~20mA |
| 7 - J | |
| 8 - N | |

G. Output1:

- | | |
|------------------------------|-----------|
| 0 - None | A - 0~5V |
| 1 - Relay, contact SPDT | B - 0~10V |
| 3A/240VAC | C - 1~5V |
| 2 - Volt, voltage pulse, SSR | D - 2~10V |
| (24VDC/20mA) | |
| 3 - mA Current, 4~20mA | |

H. Output2:

- | | |
|------------------------------|--|
| 0 - None | |
| 1 - Relay, contact SPDT | |
| 3A/240VAC | |
| 2 - Volt, voltage pulse, SSR | |
| (24VDC/20mA) | |
| 3 - Current, 4~20mA | |

I. Alarm:

- | |
|------------|
| 0 - None |
| 1 - 1 set |
| 2 - 2 sets |
| 3 - 3 sets |

J. Additional Function:

- | |
|----------------------------|
| 0 - None |
| 1 - RS485 |
| A - 4~20mA(Retransmission) |
| B - 0~20mA(Retransmission) |
| C - 0~5V(Retransmission) |
| D - 0~10V(Retransmission) |
| E - 1~5V(Retransmission) |

Contact

Head Office

Add: 11F., No.168, Jiankang Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)

Tel: +886-2-2228-7950 (Rep.)

Fax: +886-2-2228-6140

E-mail : service@maxthermo.com.tw

Web : www.maxthermo.com

Showroom

Add: 3C25, Taipei World Trade Center, No. 5, Sec. 5, Hsin Yi Rd. Taipei Taiwan, R.O.C.

Tel: +886-2-2720-6601

Fax: +886-2-2345-5120

Thailand Office

Add: 86/132-133 m.7 Samaedum Bangkoontien 10150 Thailand.

Tel: +662-415-8318 , +662-417-2548-49

Fax: +662-415-8798

Web : www.thaimaximum.com