

■ Order code table

● MAC50A・MAC50B

Item	Code	Specification	
1. Series	MAC50A-	DIN standard: Height 96×Width 96×Depth 65mm	Panel Opening Size: Height 92×Width 92mm
	MAC50B-	DIN standard: Height 96×Width 48×Depth 62mm	Panel Opening Size: Height 92×Width 92mm
2. Input	M	Thermocouple (k, J, T, E, R, S, U, N, B, Pt100, Wre5—26) Input resistor about 500kΩ or more Resistance bulb (Pt100, JPt100) Specified current about 0.25mA Voltage (0～10mV, 0～20mV, -10～10mV, 0～50mV, 0～100mV) Input-resistance 500kΩ or more	
	V	Voltage (0～1V, 0～2V, -1～1V, 1～5V, 0～5V, 0～10V) Input resistance 500kΩ or more	
	I	Current (4～20mA, 0～20mA) Reception resistance 250Ω	
3. Control Output 1	C	Contact 1a 240V AC 2A (Resistance load)	
	S	Voltage pulse (SSR drive voltage) 12V±1.5VDC Maximum load current 20 mA DC	
	I	Current 4～20mA DC Maximum load resistance 500Ω	
	V	Voltage 0～10V DC Maximum load current 2mA DC	
4. Power Supply	F—	100～240V±10% AC 50～60Hz	
	L—	24V±10% AC/DC	
5. Event Output	E	Event outputs 1,2 (two points) Contact 1a 240V AC 2A (Resistance load)	
6. Option 1 (choose one)	N—	None	
	C—	Contact 1a 240V AC 2A (Resistance load)	
	S—	Voltage pulse (SSR drive voltage) 12V±1.5VDC Maximum load current 20 mA DC	
	I—	Current 4～20mA DC Maximum load resistance 500Ω	
	V—	Voltage 0～10V DC Maximum load current 2mA DC	
	Event output	E—	Event output 3(one point) Contact 1a 240V AC 2A (Resistance load)
	DI	D—	DI 4 (one point) No voltage contact or OC input (Select Run / stop, manual / automatic, AT, SV number, etc.)
7. DI (Option 2)	N	None	
	D	DI 1, 2, 3 (three points) No voltage contact or OC input (Select Run / stop, manual / automatic, AT, SV number, etc.)	
8. CT Input (Option 3)	N	None	
	H	CT Input Two points, For heater break alarm, CT ordered separately.	
9. Analog output (Option 4)	N	None	
	T	Current 4～20 mA DC Load resistance 300Ω or less	
	V	Voltage 0～5V DC Maximum load current 2mA DC	
10. Communication (Option 5)	N	None	
	R	RS485 communication interface with MODBUS and SHIMAX protocol	

●MAC50C・MAC50D

Item	Code	Specification						
1. Series	MAC50C—	DIN standard: Height 72×Width 72 × Depth 65mm	Panel Opening	Size: Height 68×Width 68 mm				
	MAC50D—	DIN standard: Height 48×Width 48 × Depth 62mm	Panel Opening	Size: Height 45×Width 45 mm				
2. Input	M	Thermocouple (K, J, T, E, R, S, U, N, B, PLII, WRe5-26) Input resistor about 500kΩ or more Resistance bulb (Pt 100, JPt 100) Specified current about 0.25mA Voltage (0~10mV, 0~20mV, -10~10mV, 0~50mV, 0~100mV) Input-resistance 500kΩ or more						
	V	Voltage (0~1V, 0~2V, -1~1V, 1~5V, 0~5V, 0~10V) Input resistance about 500kΩ or more						
	I	Current (4~20mA, 0~20mA) Reception resistance 250Ω						
3. Control Output 1	C	Contact 1a 240V AC 2A (Resistance load)						
	S	Voltage pulse (SSR drive voltage) 12V±1.5VDC Maximum load current 20 mA DC						
	I	Current 4~20mA DC Maximum load resistance 500Ω						
	V	Voltage 0~10V DC Maximum load current 2mA DC						
4. Power Supply	F—	100~240V±10% AC						
	L—	24V±10% AC/DC						
5. Event Output	E	Event output 1, 2 (two points) Contact 1a 240V AC 2A(Resistance load)						
6. Option 1 (choose one)	N—	None						
	C—	Contact 1a 240V AC 2A (Resistance load)						
	S—	Voltage pulse (SSR drive voltage) 12V±1.5VDC Maximum load current 20 mA DC						
	I—	Current 4~20 mA DC Maximum load resistance 500Ω						
	V—	Voltage 0~10V DC Maximum load current 2mA DC						
	Event Output	E—	Event output 3 (one point) contact 1a 240V AC 2A (Resistance load)					
7. Option 2 (choose one)	DI	N	None					
	DI	D	DI 1, 2, 3 (three points) No voltage contact or OC input (Select Run / stop, manual / automatic, AT, SV number, etc.)					
	CT input	H	CT Input Two points: For heater break alarm, CT ordered separately.					
8. Option 3 (choose one)	N	None						
	T	Current 4~20 mA DC Load resistance 300Ω or less						
	V	Voltage 0~5 V DC Maximum load current 2mA DC						
	R	RS485 communication interface with MODBUS and SHIMAX protocol						

■Measuring Range Character Table

Input type	Character	Measuring range		Input Type	Character	Measuring Range
		Unit code (°C)	Unit code (°F)			
Multi input	R	-7 / 0 ~ 1700	0 ~ 3100	Multi input	5 / 7	Scaling range: -1999~9999 count Span:10~10000 count Change of decimal point's position is possible. (no decimal point,0.1,0.01,0.001)
	K	-199.9 ~ 400.0	-300 ~ 700		5 / 2	
	K	0 ~ 1200	0 ~ 2200		5 / 3	
	K	0.0 ~ 300.0	0 ~ 600		5 / 4	
	J	0 ~ 600	0 ~ 1100		5 / 5	
	T	-199.9 ~ 200.0	-300 ~ 400		5 / 6	
	E	0 ~ 700	0 ~ 1300		5 / 7	
	S	0 ~ 1700	0 ~ 3100		5 / 8	
	U	-199.9 ~ 200.0	-300 ~ 400		5 / 9	
	N	0 ~ 1300	0 ~ 2300		5 / 10	
Thermo couple	*1 B	0 ~ 1800	0 ~ 3300	Thermocouple	B, R, S, K, E, J, T, N; JIS / IEC	
	*3 Wre5-26	0 ~ 2300	0 ~ 4200		Pt 100: JIS / IEC	
	*4 PL II	0 ~ 1300	0 ~ 2300		JPt 100: the former JIS	
	P	-200 ~ 600	-300 ~ 1100		*1 Thermocouple B: Below 400°C(752°F) is not covered by accuracy warranty	
	P	-100.0 ~ 200.0	-150.0 ~ 400.0		*2 Thermocouple Accuracy of the range of 0~ -100°C (-148°F) of the indicated value at K, T, and U, is ±0.5%FS. Accuracy of -100°C or under is ±1.0% FS	
	P	0.0 ~ 100.0	0.0 ~ 200.0		*3 Thermocouple Wre5-26: Product of Hoskins Mfg. co.,	
	P	-50.0 ~ 50.0	-60.0 ~ 120.0		*4 Thermocouple PLII:Platinel	
	P	-100.0 ~ 300.0	-150.0 ~ 600.0		*5 Thermocouple U: DIN 43710	
	P	-200 ~ 500	-300 ~ 900		*6 Resistance bulb Pt/JPt 50.0°C, Accuracy of 0.0~100.0°C is ±0.3% FS.	
	P	-100.0 ~ 200.0	-150.0 ~ 400.0		*7 Voltage (mV) 0~10 mV, Accuracy of ±0~10 mV is ±0.3% of input range	
Resistance bulb	*6	0.0 ~ 100.0	0.0 ~ 200.0			
	*6	-50.0 ~ 50.0	-60.0 ~ 120.0			
	P	-100.0 ~ 300.0	-150.0 ~ 600.0			
	P	-200 ~ 500	-300 ~ 900			
	P	-100.0 ~ 200.0	-150.0 ~ 400.0			
	P	0.0 ~ 100.0	0.0 ~ 200.0			
	P	-50.0 ~ 50.0	-60.0 ~ 120.0			
	P	-100.0 ~ 300.0	-150.0 ~ 600.0			
	P	-200 ~ 500	-300 ~ 900			
	P	-100.0 ~ 200.0	-150.0 ~ 400.0			