DIGITAL TEMPERATURE CONTROLLER
デジタル温度調節器

monoone+B
【mono wˈʌn】plus B

monoone+W
【mono wˈʌn】plus W

■ Sensor is included and ready to use.
■ Easy to check the temperature by 2-screen display
■ Safety usable by the error display function

Compatible with 100V/200V

Compatible with 100V micro current

Our 12 commitments

1 Made in JAPAN
This is a ThreeHigh policy. It is made in Japan and reliable.

2 Reliability and safety
Handy type, multi-functional and high-functional model specialized in safety.

3 Ready to use
Take it out of the box, connect to the heater, and it is ready to use. Of course, the temperature sensor is attached.

4 Display range
The best in the industry for handy type. Measurable from -199 to 999℃.

5 Sensor can be replaced
You can choose the shape of the sensor to suit your needs.

6 Function for simultaneously displaying of set and measured temperature
The set temperature and the measured temperature are displayed simultaneously.

7 Alarm (error) function
It notified you by sound when an error occurs. You can work safely even in invisible situations.

8 Short signal protection
The unit will never get damaged. The risk of circuit damage due to over-current can be avoided.

9 Overheat prevention function
The heater may lose its control for some reasons. However, it automatically turns off the output if you set the temperature in advance.

10 DIN rail compatible
Consideration for the mounting method. Easily mounted on the control panel.

11 RoHS2 compliance
Environmentally friendly. Also compatible with EURoHS2 directive.

12 Troubleshooting
We deal with the problem immediately. Traceability managed and we promise our sincere response to the customers. Quality and reliability are our first priority.

Related products　　Temperature sensor

● Be sure to read the manual before using the product to insure safe and proper operation.

Specifications

Product name	monoone+B	monoone+W
Model	mpb20	mpw20
Color	Black	White
Power supply voltage	AC85V-250V(single phase) 50/60Hz	AC85V-125V(single phase) 50/60Hz
Output rating	0.1A-12A (Load resistance)	1mA-0.5A (Load resistance)
Input	Thermocouple(K)	
Output format	Relay	
Control method	ON/OFF control circuit	
Display range	-199℃～999℃	
Indication accuracy	±2℃(-199℃～700℃)　±4℃(+700℃～+999℃)	
Sampling period	0.1 second	
Memorizing the setup values	EEPROM	
Short circuit protection	Built-in Fuse	
Other functions	Error indication/Sensor error detection/Setting to prevent over-temperature rise/Relay welding detection/Relay high-frequency open-close detection/Relay open-close count monitoring	
Power consumption	4VA or less	
Permissible ambient conditions	Temperature:-10～40℃　Humidity:10～85% RH (No condensation)	
Voltage resistance	AC1500V per minute(Both power supply part and output part)	
Noise resistance	Pulse width 50ns, 1000ns/1500V	
Dimensions/Weight	165(V) x 70(W) x 35(D) *Protuberance and mounting bracket are excluded.	
Mounting	Wall hanging/DIN rail(optional)	
Attached sensor	Thermocouple(K)Φ3.2×100L With lead wire 2m With male connector *Consult us if using above 260℃	
Length of power supply cable	Power supply side: 1m(with 100V outlet plug male) Heater side: 1m(with 100V outlet plug female)	

● The DIN rail mounting place is sold separately.
● If the product is used at a voltage other than 100V, replace it with a 200V outlet plug.

SPECIAL WEB SITE **monoone.jp**