



# DIGITAL TEMPERATURE CONTROLLER

デジタル温度調節器

## mono<sup>+</sup>ne+B

[mono w'an] plus B

## mono<sup>+</sup>ne+W

[mono w'an] plus W

Made in Japan

RoHS Compliance

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



### Specifications

Product name	mono+ne+B	mono+ne+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(W) 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](http://monoone.jp)

## Our 12 commitments

- Made in JAPAN**  
This is a Three-High policy. It is made in Japan and reliable.
- Reliability and safety**  
Handy type, multi-functional and high-functional model specialized in safety.
- 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.
- Display range**  
The best in the industry for handy type. Measurable from -199 to 999℃.
- Sensor can be replaced**  
You can choose the shape of the sensor to suit your needs.
- Function for simultaneously displaying of set and measured temperature**  
The set temperature and the measured temperature are displayed simultaneously.
- Alarm (error) function**  
It notified you by sound when an error occurs. You can work safely even in invisible situations.
- Short signal protection**  
The unit will never get damaged. The risk of circuit damage due to over-current can be avoided.
- 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.
- DIN rail compatible**  
Consideration for the mounting method. Easily mounted on the control panel.
- RoHS2 compliance**  
Environmentally friendly. Also compatible with EU RoHS2 directive.
- 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.



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