



DIGITAL TEMPERATURE CONTROLLER

デジタル温度調節器

monoOne Comparison

Product name	NEW monoOne ⁺ B
Input	Thermocouple(K)
Power supply voltage	AC 85V ~ 250V 50/60Hz
Output format	Relay
Output rating	0.1A ~ 12A(Load resistance)
Control method	ON/OFF control
Display range	-199 ~ 999°C
Indicating accuracy(not including sensor accuracy)	±2°C(-199°C ~ 700°C), ±4°C(+700°C ~ +999°C)
Sampling cycle	0.1 second
Short-circuit protection	20A Built-in fuse(not replaceable by user)
Power consumption	4VA or less
Allowable ambient conditions	Temperature:-10~40°C Humidity:10~85% r h(No condensation)
Withstand voltage	AC1500V per minute(Both power supply and output unit)
Noise Resistance	Pulse width 50nS, 1500V or more at 1000nS
Auxiliary output	-
Dustproof and waterproof function	Degree of JIS protection Equivalent to IP54 *Excluding power cable drawer, non-cable drawer, and thermocouple connector
Simultaneous setting/measurement temperature display function	○
Monitor temperature display function	-
Timer function	-
Overheat prevention function	○
Lock function	○
Error display function	○
Error function	Alarm
Sensor error detection function	○
Heater burnout alarm function	-
Internal relay error detection function	○
Automatic exhaust heat function	-
DIN rail compatibility	○
5-step stand compatibility	-
RoHS compliance	○
Body color	Black
Dimensions	165 (H) × 70 (W) × 35 (D) mm *Excluding protuberance and mounting brackets
Power cord	With 1m plug
Includes sensor	Thermocouple(K) φ3.2 × 100L With lead wire 2m With male connector *Please contact us when used at 260°C or higher.
Weight	600g
Installation	Wall Mounting/DIN rail(Optional)

	NEW monoOne ⁺ W	monoOne ⁺ -120
Input	Thermocouple(K)	Thermocouple(K, J, T, E, R, S, B) <External resistor 100 Ω or less> Platinum resistance thermometer(Pt1000)
Power supply voltage	AC85V~125V(Single phase) 50/60Hz	AC 90 ~ 240V(Single phase) 50/60Hz
Output format	Relay	SSR (Contactless) Voltage output<Output voltage depends on power supply voltage.>
Output rating	1mA ~ 0.5A(Load resistance)	1.5A or less *Slight leakage current flows due to SSR output. Please contact us when the current value is 0.2A or less.
Control method	ON/OFF control	ON/OFF control PID time division proportion <Heating operation> With auto-tuning
Display range	-199 ~ 999°C	*Please refer to its catalog for the details.
Indicating accuracy(not including sensor accuracy)	±2°C(-199°C ~ 700°C), ±4°C(+700°C ~ +999°C)	*Please refer to its catalog for the details.
Sampling cycle	0.1 second	0.5 second
Short-circuit protection	20A Built-in fuse(not replaceable by user)	20A Built-in fuse(not replaceable by user)
Power consumption	4VA or less	10VA or less
Allowable ambient conditions	Temperature:-10~40°C Humidity:10~85% r h(No condensation)	Temperature:0~40°C Humidity:35~85% r h(No condensation)
Withstand voltage	AC1500V per minute(Both power supply and output unit)	AC1800V per AC1800V per second(Both power supply and output unit)
Noise Resistance	Pulse width 50nS, 1500V or more at 1000nS	Pulse width 50nS, 1200V or more at 1nS
Auxiliary output	-	AC250V 3A
Dustproof and waterproof function	Degree of JIS protection Equivalent to IP54 *Excluding power cable drawer, non-cable drawer, and thermocouple connector	-
Simultaneous setting/measurement temperature display function	○	○
Monitor temperature display function	-	○
Timer function	-	monoone-120T
Overheat prevention function	○	○
Lock function	○	○
Error display function	○	○
Error function	Alarm	Indicator lamp
Sensor error detection function	○	○
Heater burnout alarm function	-	○
Internal relay error detection function	○	-
Automatic exhaust heat function	-	-
DIN rail compatibility	○	○
5-step stand compatibility	-	○
RoHS compliance	○	○
Body color	White	Black
Dimensions	165 (H) × 70 (W) × 35 (D) mm *Excluding protuberance and mounting brackets	166 (H) × 110 (W) × 86 (D) mm *Excluding protuberance and mounting brackets
Power cord	With 1m plug	Optional
Includes sensor	Thermocouple(K) φ3.2 × 100L With lead wire 2m With male connector *Please contact us when used at 260°C or higher.	-
Weight	600g	1.3kg
Installation	Wall Mounting/DIN rail(Optional)	Table top/Wall mounting/DIN rail(Optional)



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