Glas-Col®
Tools for Scientists®

Advance PID Temperature Controllers

Two control modes---On/Off or PID for more accurate control. This temperature control can be used for a wide variety of applications and provides excellent control accuracy and power capabilities, making it great for pilot process plants, R & D labs or OEM requirements.

Accepts eight thermocouple types with mini-connector

Features:

Rear panel output receptacle for direct plug-in of heaters and other resistive devices. Field calibrations help to improve system accuracy by entering the offset value to correct for individual probe error. Simultaneously view both the measured and set point on the display. Temperature scale selectable to read in °F, °C, °K (Kelvin) or °R (Rankin). Display indicates output and alarm conditions. Multiple control modes from simple On/Off control to sophisticated auto-tuning PID control. Non-volatile EEPROM stores setup and operating parameters, even if power is lost. The 120 VAC models include a 6-ft (1.8-m) power cord and US standard plug and receptacle (NEMA 5-15; 240 VAC models a 6-ft (1.8-m) power cord and US standard plug and receptacle (NEMA 6-15).

Multiple Safety Features:

Output power to load device is automatically shut down in the event of a broken sensor or control loop break. Over-temperature protection shuts down the output if the user-settable over-temperature or timer is exceeded. Outlet power receptacle is fused separately from the controller for added safety. Audible and visual out-of-range alarms are also included.

Models			
104A TC1800	120 Volts	1800 Watts	15 Amps
104A TC 2400	240 Volts	2400 Watts	10 Amps

Advance PID Temperature Controllers

Input Type	Range
J	-310 to 1832°F (-190 to 1000°C)
K	-328 to 2502°F (-200 to 1372°C)
T	-328 to 752°F (-200 to 400°C)
E	-328 to 1832°F (-200 to 1000°C)
N	-328 to 2372°F (-200 to 1300°C)
B	392 to 3272°F (200 to 1800°C)
R	32 to 2314°F (0 to 1768°C)
S	32 to 3214°F (0 to 1768°C)

Front View

A - Heat ON Indicator
B - Cool ON Indicator
C - Autotune Indicator
D - Run/Stop Button
E - Autotune Button
F - Alarm Silence Button
G - Select Button
H - Setup Menu Button
I - Back Button
J - Increment
K - Decrement

Specifications:

Control Type: On/Off, programmable PID , auto tune PID

Resolution: .01°, 1 above 999.9° and below -99.9°

Accuracy:
Type J, K, T, E and N: +/- 0.1% of reading +/- 0.7°F (0.4°C) above -248°F (-100°C); +/- 0.1% of reading, +/- 2°F (1°C) below -248°F (-100°C)

Types B, R and S: +/- 0.1% of reading, +/- 1.8°F (1.0°C)

Display: OLED 256 x 64 pixel resolution, window 3.17" x 0.83" (80.5mm x 22mm)

Operating Ambient: 32 to 104°F (0 to 40°C); 0 to 90% RH, non-condensing
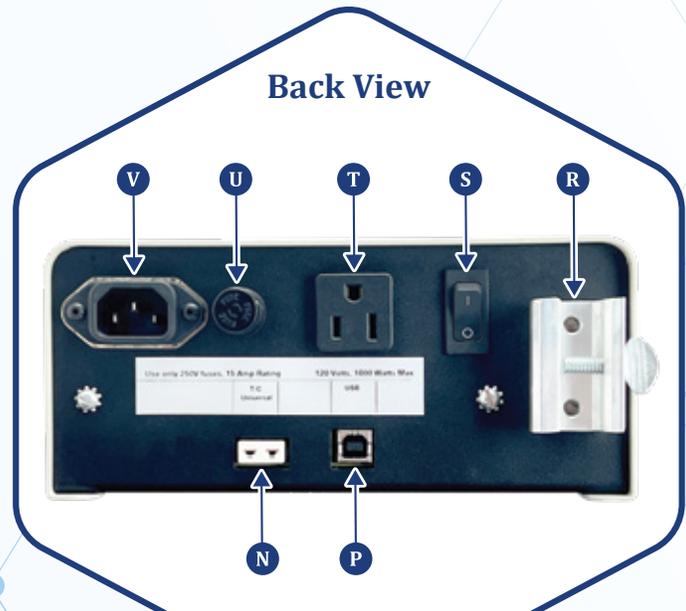
Digital Output: Isolated USB 15200 baud

Dimensions: (WxHxD) 8" x 3.6" x 9" (203 x 91 x 229mm)

Back View

R - Grid Support
S - Main Power Switch
N - Thermocouple Input
T - Output Power Receptacle
U - Load Fuse
P - USB Support
V - Input Power Receptacle