



Series: TCPSS-1Z

1-Zone Industrial Temperature Control Panel with Thermocouple or PT100 (RTD) Input



Model TCPSS-1Z-K Shown

FEATURES & BENEFITS

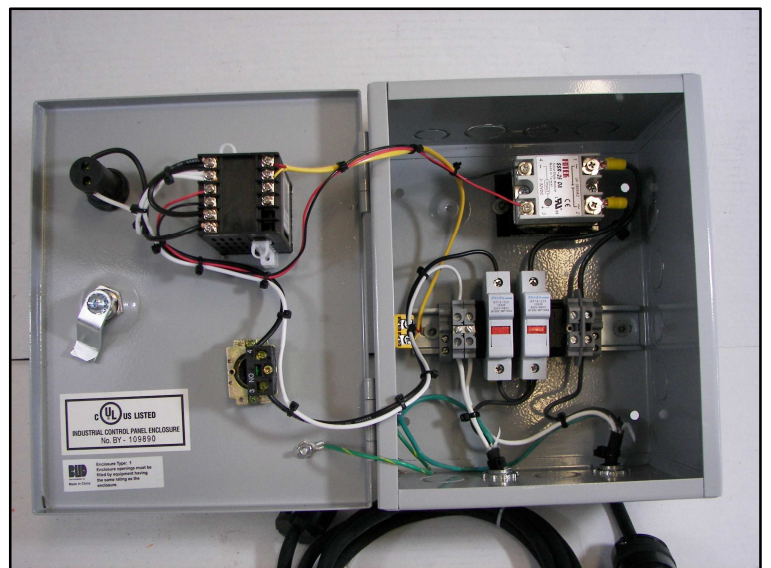
- Digital Temperature Controller Accurate To $\pm 0.3\%$ FS
- Front Panel Alarm Buzzer/Red Flashing Indicator
- Rugged, NEMA 1 Painted Steel Enclosure
- Pre-assembled, Pre-wired, Ready-To-Operate
- Configured For Thermocouple or PT100 Sensors
- Available with Pre-wired Power and Output Cords
- 120VAC, SSR with 16A (1920 Watts) Control Capacity

APPLICATIONS

- R & D Laboratory Use
- Equipment Sterilization
- Food & Pharmaceutical Processing

DESCRIPTION

Series TCPSS-1Z are Economical, Wall Mount, 1-Zone Thermocouple Temperature Control Panels that provide accurate temperature control for a variety of laboratory and industrial heating applications. The unit operates on 120V AC and consists of a high performance, dual display auto-tuning PID temperature controller with one pre-wired Solid State Relay (SSR) control output. Front panel features an On/Off switch and an alarm module that provides both visual and audible warnings. Models are available for J, K, E thermocouple or PT100 RTD sensor types. The unit is available with, or without, pre-wired power and output cords. The fused output provides up to 16 Amps capacity to control heaters and other similar resistive scientific and industrial heating equipment.



Model TCPSS-1Z-K-PW Shown

GENERAL SPECIFICATIONS

Sensor Input: J, K, E Thermocouple, RTD (Pt100) $\alpha=0.00385$
Sensor Connection: Panel Jack (Mating Connector Included)
Panel Control Output: Internal Solid State Relay (SSR)
Control Capacity: 120V AC, 16A (1920 Watts) Max
Temperature Controller Type: Auto-tune PID
Temperature Accuracy: $\pm 0.3\%$ of Full Scale
Display Type: Dual 4-digit LED
Display Range: -1999 to 9999 (Depends on input type)
Operating Voltage: 120V AC, 50/60 Hz
Controller/Alarm Fusing: 1A (10 x 38mm)
Control Output Fusing: 20A (10 x 38mm)
Alarm: Audible Buzzer with Flashing Red Indicator
Operating Temperature: 32 to 124 °F (0 to 51 °C)
Enclosure Type: NEMA 1, Painted Steel with Knockouts
Enclosure Dimensions: 12 x 8 x 6" (305 x 203 x 153mm)



Model TCPSS-1Z-K-PW Shown

Available Models

Model Number	Input Type	Description	Temperature Control Range
TCPSS-1Z-J	Type-J TC	Temperature Control Panel	32 to 1832 °F (0 to 1000 °C)
TCPSS-1Z-J-PW	Type-J TC	Temperature Control Panel with Pre-wired Power & Output Cords	32 to 1832 °F (0 to 1000 °C)
TCPSS-1Z-K	Type-K TC	Temperature Control Panel	32 to 2192 °F (0 to 1200 °C)
TCPSS-1Z-K-PW	Type-K TC	Temperature Control Panel with Pre-wired Power & Output Cords	32 to 2192 °F (0 to 1200 °C)
TCPSS-1Z-E	Type-E TC	Temperature Control Panel	32 to 1832 °F (0 to 1000 °C)
TCPSS-1Z-E-PW	Type-E TC	Temperature Control Panel with Pre-wired Power & Output Cords	32 to 1832 °F (0 to 1000 °C)
TCPSS-1Z-PT100	Pt100 ($\alpha=0.00385$)	Temperature Control Panel	-148 to 1112 °F (-100 to 600 °C)
TCPSS-1Z-PT100-PW	Pt100 ($\alpha=0.00385$)	Temperature Control Panel with Pre-wired Power & Output Cords	-148 to 1112 °F (-100 to 600 °C)

Note: Sensor input type is factory set and dedicated by model.

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Note: Continued product improvements make specifications subject to change without notice.
Check www.imagineinstruments.com for the latest product information and updates

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