STP Low Cost Programmable Digital Thermostat

The compact STP digital controller is an easy-to-use, low-cost thermostat which can accept Type K and J Thermocouples, 2 or 3 wire RTD sensors and 4~20mA inputs. Suitable for heating and cooling applications. A cost-effective solution for simple control and monitoring applications.

• Universal inputs (Thermocouple, Pt100, 4~20mA)
• Bright LED display
• Compact size (75mm x 33mm x 70mm)
• Basic on/off control with programmable hysteresis
• Simple to use, easy to configure

Rear View

33mm

75mm

Technical Details

Input(s)	Thermocouple Type K, J (-30°C to +999°C) 2 or 3 wire Pt100 (-199°C to +654°C) 4~20mA (-199 to +999) (requires a 250 ohm resistor fitted between input terminals)
Display	3-digit LED
Control Method	On / Off
Control Output	Relay (15A/250V) or Solid State Relay
Alarm Output	Relay (3A/250V)
Accuracy	0.5% FS
Sampling Time	0.5 seconds
Working Environment	0 to +50°C, less than 80% RH (non-condensing)
Power Supply	110~240 V AC or 21~30 V AC/DC
Dimensions	75mm (W) x 33mm (H) x 70mm (D)
Mounting / Cutout Dimensions	Panel-mounted with drilling template 71mm x 29mm

control output	alarm output	power supply	order code
Relay (15A/250V)	-	110/240 V AC	STP321
Relay (15A/250V)	One Relay Alarm (3A/250V)	110/240 V AC	STP322
Solid State Relay	-	110/240 V AC	STP321S
Solid State Relay	One Relay Alarm (3A/250V)	110/240 V AC	STP322S
Relay (15A/250V)	-	21-30 V AC/DC	STP321A
Relay (15A/250V)	One Relay Alarm (3A/250V)	21-30 V AC/DC	STP322A
Solid State Relay	-	21-30 V AC/DC	STP321SA
Solid State Relay	One Relay Alarm (3A/250V)	21-30 V AC/DC	STP322SA

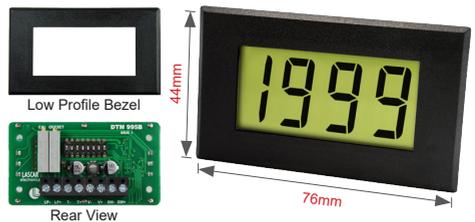## DTM-995B LCD Thermocouple Indicator

The DTM-995B is compatible with K, J and T type thermocouples. It can measure between -200°C and +1300°C (-328°F to +1999°F) when using an appropriate thermocouple.

The current value and maximum/minimum values since power-on are recorded, which can be recalled and displayed by using an external push button connected to the meter. Calibration can be performed easily using two potentiometers located on the rear of the meter.

Cold-junction compensation is used to maintain accuracy when the meter is exposed to changes in temperature.

The meter is housed in a robust carrier, which can be bolted in place or panel mounted using the low profile bezel, window and clips provided. Backlighting is included for use in poor lighting conditions.

Low Profile Bezel

Rear View

44mm

76mm

• Measures temperature from a K, J or T type thermocouple
• -200ºC to +1300ºC (-328°F to +1999ºF) range
• Cold-junction compensation
• Displays current, highest and lowest readings
• 19mm (0.75") digit height
• Screw terminal connections, LED backlighting

Technical Details

Accuracy (excluding probe)		1°C (2°F) typical
Measurement Range	Type K Thermocouple	-200°C to +1300°C (-328°F to +1999°F)
	Type J Thermocouple	-130°C to +900°C (-202°F to +1652°F)
	Type T Thermocouple	-200°C to +350°C (-328°F to +662°F)
Supply voltage (normal operation)		7.5 V d.c. (min), 30 V d.c. (max)
Supply voltage (5V mode)		4.75 V d.c. (min), 5 V d.c. (typical), 5.25 V d.c. (max)
Backlight voltage		4.75 V d.c. (min), 5 V d.c. (typical), 5.25 V d.c. (max)
Supply current		6mA (@30V) min, 13mA (@5V) max
Supply current with backlighting		20mA (@30V) min, 50mA (@5V) max
Operating Temperature Range		0°C to +50°C (+32°F to +122°F)
Temperature Stability		0.05°C (0.1°F)
Dimensions *(panel cut-out 72 x 40mm, 3mm max panel thickness)*		71.5mm (W) x 39mm (H) x 22.5mm (D) (bezel 76mm x 44mm)

Visit our website for full technical specifications

order code	DTM-995B