



## **BX-150**

### **DRY WELL TEMPERATURE CALIBRATOR**

The dry-block heat sources allow users to check the accuracy of the thermometers and sensors as a system, on site, without the need for heavy, expensive equipment. The dryblocks are high accuracy, portable heat sources that are extremely easy to use. Simply plug in, switch ON and set the dry-block to the temperature that you wish to test, insert your probe into the correct size well and record the reading of your thermometer and probe to the displayed temperature of the dry-block and the difference is the error of your instrument. For optimum accuracy and UKAS traceability use a reference thermometer to make comparison measurements.

The blocks are controlled by a closed loop microprocessor based digital PID temperature controller system incorporating a heater and precision platinum RTD sensor housed in the aluminium block. Fan cooling allows rapid changes in block temperature upon demand. The required temperature may be adjusted in 0.1°C increments across the range of the instrument using the buttons on the front panel.

These units are ideal for use in a variety of industrial and process applications. Each unit is supplied with a traceable certification of calibration showing actual test data, which can be used as part of quality assurance programmes.

## GENERAL SPECIFICATIONS:

<b>Temperature Range</b>	+33 to 300°C (at 20°C ambient)
<b>Accuracy</b>	0.8°C; Temp ≤ 100°C (±1.6°F; Temp ≤ 212°F)
	±1.6°C; 100°C ≤ Temp ≤ 200°C (±3.2°F; 212°F ≤ Temp ≤ 392°F)
	±2.8°C; 200°C ≤ Temp ≤ 300°C (±5.6°F; 392°F ≤ Temp ≤ 572°F)
	±0.1°C; Temp ≤ 100°C (±0.2°F; Temp ≤ 212°F)
	±0.2°C; 100°C ≤ Temp ≤ 200°C (±0.4°F; 212°F ≤ Temp ≤ 392°F)
<b>Stability</b>	±0.4°C; 200°C ≤ Temp ≤ 300°C (±0.8°F; 392°F ≤ Temp ≤ 572°F)
	±0.8°F; 392°F ≤ Temp ≤ 572°F
<b>Resolution</b>	0.1°C/°F
<b>Heating Time</b>	30 minutes to max
<b>Cooling Time</b>	30 minutes to 100°C (122°F)
<b>Aperture Diameter</b>	Φ 4.2mm Φ 6.8mm Φ 5mm Φ 4.5mm
<b>Power</b>	230VAC (±10%), 1.25A; or 110VAC (±10%), 2.5A
<b>Size (H*W*D)</b>	180mm*114mm*233mm
<b>Weight</b>	3kg

## ENVIRONMENTAL CONDITIONS

The instrument operates safely under the following conditions:

Temperature Range : 5-35°C (41-95°F)

Ambient Relative Humidity : 15-80%

Pressure : 75kPa - 106kPa

Mains Voltage within ±10% of nominal

Vibrations in the calibration Environment should be Minimized

## INCLUDED ACCESSORIES:

- BX 150 dry-block heat sources
- Power Cord
- User's Guide
- Calibration Report