

## HC-300DW Dry-Well Temperature Calibrator

Compact, easy-to-use heat source for checking the accuracy of temperature sensors up to +300°C (+572°F) on site, without the need for heavy, expensive equipment. Simply plug in, switch on, set the heat source to the desired temperature test point and insert the test probe into the correct sized well to get a verification of the performance.

The HC-300DW is controlled by a 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 using the buttons on the front panel.

Supplied with instruction manual, power cable & in-house test certificate.

### Features

- Easily calibrate thermocouples, RTDs, bi-metals and general thermometers up to +300°C
- 2 x 3.5mm, 1 x 4.2mm, 1 x 5.0mm, 1 x 6.8mm test hole diameters
- 100mm well length (90mm insertion depth)
- Fast heating/cooling time
- Compact size
- Overload alarm LEDs



Technical Details	
<b>Temperature Range</b>	+33°C to +300°C (+91.4°F to +572°F) at +20°C ambient
<b>Resolution</b>	0.1°C/°F
<b>Accuracy</b>	±0.8°C (up to +100°C), ±1.6°F (up to +212°F)
	±1.6°C (+100°C to +200°C), ±3.2°F (+212°F to +392°F)
	±2.8°C (+200°C to +300°C), ±5.6°F (+392°F to +572°F)
<b>Stability</b>	±0.1°C (+33°C to +100°C), ±0.2°F (+91.4°F to +212°F)
	±0.2°C (+100°C to +200°C), ±0.4°F (+212°F to +392°F)
	±0.4°C (+200°C to +300°C), ±0.8°F (+392°F to +572°F)

Technical Details (continued)	
<b>Test Hole Dia.</b>	2x3.5mm, 1x4.2mm, 1x5.0mm, 1x6.8mm
<b>Well Length</b>	100mm (90mm insertion depth)
<b>Heating Time</b>	30 minutes to maximum
<b>Cooling Time</b>	30 minutes to +100°C (+212°F)
<b>Stabilisation</b>	5 minutes
<b>Power</b>	230 Volts (115 Volts also available)
<b>Dimensions</b>	113mm (H) x 183mm (W) x 235mm (D)
<b>Weight</b>	~ 3kg

order code HC-300DW

## HC-500BB Black-Body Infrared Calibrator

The HC-500BB compact Infrared Calibrator provides a stable black-body target for calibrating non-contact infrared thermometers (in-line or hand-held) up to +500°C (+932°F).

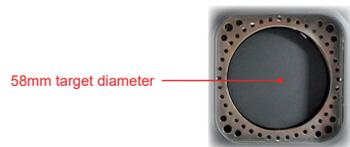
The unit features a large temperature controlled black-body target with a diameter of 58mm (2.25 inches) that offers a wide field of view area for optical variations in infrared thermometers. With an emissivity of 0.95, the isothermal target can be controlled in set-point increments of 0.1° from +50°C to +500°C.

For even higher precision, a contact calibration well is located directly behind the black-body surface (3.1mm diameter). Using an optional digital RTD thermometer and calibrated secondary probe, accuracies of ±0.1°C can be achieved.

Supplied with instruction manual, power cable and in-house test certificate.

### Features

- Easily calibrate non-contact IR thermometers up to +500°C
- Large 58mm (2.25 inch) black-body target
- Contact RTD reference well for higher accuracies of ±0.1°C
- Fast heating/cooling time
- Compact size
- Overload alarm LEDs



Technical Details	
<b>Temperature Range</b>	+50°C to +500°C (+122°F to +932°F)
<b>Resolution</b>	0.1°C/°F
<b>Accuracy</b>	±0.8°C (up to +100°C), ±1.6°F (up to +212°F)
	±1.6°C (+100°C to +200°C), ±3.2°F (+212°F to +392°F)
	±2.8°C (+200°C to +500°C), ±5.6°F (+392°F to +932°F)
<b>Stability</b>	±0.1°C (up to +100°C), ±0.2°F (up to +212°F)
	±0.2°C (+100°C to +200°C), ±0.4°F (+212°F to +392°F)
	±0.4°C (+200°C to +500°C), ±0.8°F (+392°F to +932°F)

Technical Details (continued)	
<b>Test Target Dia.</b>	58mm (2.25 inches)
<b>Contact Well Dia.</b>	3.1mm
<b>Target Emissivity</b>	0.95
<b>Heating Time</b>	30 minutes to maximum
<b>Cooling Time</b>	30 minutes to +100°C (+212°F)
<b>Power</b>	230 Volts (115 Volts also available)
<b>Dimensions</b>	114mm (H) x 180mm (W) x 233mm (D)
<b>Weight</b>	~ 3 kg

order code HC-500BB