

# Reference Thermometers

±0.05 °C high system accuracy



- 5-point UKAS Certificate of Calibration included
- supplied complete with high accuracy probe
- temperature range -199.99 to 199.99 °C
- ideal for calibration comparison checks

The Reference thermometers are high accuracy PT100 instruments that are supplied with a five-point UKAS Certificate of Calibration. Each certificate indicates deviations from standards at various check points: -18, 0, 40, 70 and 100 °C. Special points may be certified by arrangement with our UKAS calibration laboratory.

The Reference thermometers are ideal for comparison checking of the accuracy of other thermometers and probes, when used in conjunction with a stable temperature heat or chill source, see page 95. The instruments measure temperature over the range of -199.99 to 199.99 °C with a resolution of 0.01 °C and an accuracy of ±0.05 °C. The units feature a simple on/off push button with open circuit 'Err' and low battery indication, when applicable. The Reference Plus thermometer incorporates the additional features of a max/min and hold function.

The Reference thermometers are supplied with a permanently attached, high accuracy probe incorporating a 1/10th DIN PT100 sensor. The probe measures Ø3.3 x 130 mm and is supplied with a one metre PVC lead.



## low cost calibration checker

The Comparator provides an inexpensive way of checking the temperature of infrared thermometers when used in conjunction with a Reference thermometer.



specification	Reference & Reference Plus
range	-199.99 to 199.99 °C
resolution	0.01 °C
accuracy	±0.05 °C (-30 to 150 °C) ±0.1 °C (-50 to 200 °C)
battery	3 x 1.5 volt AAA
battery life	2000 hours
sensor type	PT100 1/10th DIN
display	10 mm LCD
dimensions	25 x 56 x 128 mm
weight	210 grams
a UKAS Certificate of Calibration is included	

order code	description
222-055	Reference
222-063	Reference Plus
814-132	Comparator