



## Reference thermometer

- ✓ high system accuracy  $\pm 0.2^{\circ}\text{C}$
- ✓ 5-point UKAS Certificate included
- ✓ ideal for comparison checks
- ✓ supplied complete with high accuracy probe

The Reference thermometer is a high accuracy PT100 instrument that is supplied with a 5-point UKAS Certificate of Calibration. Each certificate indicates deviations from standards at various check points:  $-18^{\circ}\text{C}$ ,  $0^{\circ}\text{C}$ ,  $+40^{\circ}\text{C}$ ,  $+70^{\circ}\text{C}$  and  $+100^{\circ}\text{C}$ . Special ranges may be certified by arrangement with the ETI UKAS calibration laboratory.

The Reference thermometer is ideal for comparison checking the calibration and accuracy of other thermometers and probes, when used in conjunction with a stable temperature heat or chill source, see pages 88 and 89. The instrument measures temperature over the range of  $-99.9$  to  $+199.9^{\circ}\text{C}$  with a resolution of  $0.1^{\circ}\text{C}$  and an accuracy of  $\pm 0.2^{\circ}\text{C}$ . The unit features a simple on/off switch with low battery and open circuit indication, when applicable.

The Reference thermometer is supplied with a permanently attached, high accuracy probe incorporating a 1/10th DIN PT100 sensor. The probe measures  $\text{Ø}3.3 \times 130\text{mm}$  and is supplied with a one metre PVC lead.



### Comparator

The Reference thermometer (above) is being used in conjunction with an infrared thermometer and the Comparator.

order code	description
222-005	Reference thermometer
814-132	aluminium Comparator



A 5-point UKAS Certificate of Calibration is included with each Reference thermometer

specification	Reference thermometer
range	$-99.9$ to $+199.9^{\circ}\text{C}$
resolution	$0.1^{\circ}\text{C}$
accuracy	$\pm 0.2^{\circ}\text{C} \pm 1$ digit
battery	9 volt PP3 alkaline
battery life	200 hours
sensor type	PT100 (3-wire)
display	12.7mm LCD
dimensions	36 x 80 x 147mm
weight	250 grams

a UKAS Certificate of Calibration is included with each instrument



# Precision PT100 thermometer

- ✓ high system accuracy  $\pm 0.2^{\circ}\text{C}$
- ✓ interchangeable PT100 probes
- ✓ range  $-99.9$  to  $+199.9^{\circ}\text{C}$
- ✓  $0.1^{\circ}\text{C}$  resolution

High accuracy is one of the outstanding features of the Precision thermometer. Readings can be obtained to  $0.1^{\circ}\text{C}$  over the range of  $-99.9$  to  $+199.9^{\circ}\text{C}$  with a high accuracy of  $\pm 0.2^{\circ}\text{C}$ . Despite the high accuracy and sensitivity, the Precision thermometer has all the robustness of an industrial instrument.

The Precision thermometer incorporates an easy to read, LCD display with open circuit and low battery indication.

Conveniently located are both the side mounted on/off switch and the probe socket positioned at the top of the instrument for ease of use. This enables a wide variety of probes to be used depending on your personal requirements. Simply plug in the appropriate probe to measure temperature accurately, almost anywhere.



ETI offers an extensive range of interchangeable probes covering most industrial and laboratory applications, see page 51. For regularly checking the accuracy of each Precision thermometer, a range of calibration test caps complete with a UKAS Certificate of Calibration is available, see page 93.



### optional accessories

The protective PVC boot helps to protect the instrument against accidental damage. The black acrylic wall bracket stores the instrument safely (screws not supplied).



specification	Precision
range	$-99.9$ to $+199.9^{\circ}\text{C}$
resolution	$0.1^{\circ}\text{C}$
accuracy	$\pm 0.2^{\circ}\text{C} \pm 1$ digit
battery	9 volt PP3 alkaline
battery life	200 hours
sensor type	PT100 (3-wire)
display	12.7mm LCD
dimensions	36 x 80 x 147mm
weight	200 grams

*a traceable certificate of calibration is included with each instrument*

order code	description
222-001	Precision thermometer
830-200	protective PVC boot
832-110	wall bracket

*the Precision thermometer is exclusive of probe*

