

Precision PT100 Thermometers

0.1 °C or 0.01 °C resolution with a high accuracy

- ✓ high accuracy ± 0.2 °C or 0.05 °C
- ✓ max/min memory function
- ✓ interchangeable PT100 probes
- ✓ FREE certificate of calibration included



High accuracy is one of the outstanding features of the Precision thermometers. There are two models available, the Precision and Precision Plus. The Precision measures temperature over the range of 199.9 to 499.9 °C with a 0.1 °C resolution and high accuracy of ± 0.2 °C. The Precision Plus measures temperature over the range of -199.99 to 199.99 °C with a 0.01 °C resolution and high accuracy of ± 0.05 °C. Please note: the accuracies quoted are for the instruments only.

Conveniently located on the front of the instrument are the on/off, max/min and display hold buttons. The Binder probe socket is positioned at the top of the instrument which enables a variety of probes to be used depending on the application.

The Precision thermometers feature a large, easy to read, LCD display with open circuit 'Err' and low battery indication. Each thermometer is powered by three 1.5 volt AAA batteries that gives a minimum of 2000 hours battery life. The units will power off automatically after ten minutes, maximising battery life. This feature can be disabled by the user, if required.

ETI offers a range of interchangeable PT100 Class A probes for use with the Precision thermometer, see page 56 for full details. The Precision Plus is supplied with a 160-222 PT100 1/10th DIN liquid probe and a UKAS Certificate of Calibration.

For regularly checking the accuracy of each Precision thermometer, a range of calibration test caps complete with a UKAS Certificate of Calibration are available, see page 82.



optional accessories

- 830-251 protective silicone boot - the Precision thermometers are waterproof to IP63 when used in conjunction with this protective boot
- 832-050 wall bracket (screws not supplied) and protective silicone boot
- calibration test caps, see page 82



order code description

222-053	Precision thermometer
222-051	Precision Plus thermometer
830-251	protective silicone boot
832-050	wall bracket & protective boot
222-053 Precision is exclusive of probe	
222-051 Precision Plus is inclusive of probe	

specification	Precision	Precision Plus
range	-199.9 to 499.9 °C	-199.99 to 199.99 °C
resolution	0.1 °C	0.01 °C
accuracy	± 0.2 °C	± 0.05 °C
battery	3 x 1.5 volt AAA	
battery life	2000 hours	
sensor type	PT100	
display	10 mm LCD	
dimensions	25 x 56 x 128 mm	
weight	130 grams	
222-053 Precision includes FREE traceable certificate of calibration		
222-051 Precision Plus includes UKAS Certificate of Calibration		

Reference Thermometer

±0.05 °C high system accuracy

NEW!

- ✓ range -199.99 to 199.99 °C
- ✓ 5-point UKAS Certificate included
- ✓ ideal for calibration 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, 0, 40, 70 and 100 °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 78 and 79. The instrument and probe measures 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 unit features a simple on/off push button with low battery and open circuit 'Err' and low battery 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 Ø3.3 x 130 mm and is supplied with a one metre PVC lead.



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



Comparator

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

order code	description
222-055	Reference
814-132	Comparator

specification	Reference
range	-199.99 to 199.99 °C
resolution	0.01 °C
accuracy	±0.05 °C (-30 to 150 °C) otherwise ±0.1 °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

REFERENCE THERMOMETERS

