

MODEL

Precision
Precision Plus
Reference

ORDER CODE

222-553
222-550
222-555



ThermoWorks

Precision & Reference Thermometers

SPECIFICATIONS

Precision / Precision Plus Thermometers

Range -328 to 1562°F (-200 to 850°C)
Accuracy (Precision) $\pm 0.4^\circ\text{F}$ ($\pm 0.2^\circ\text{C}$) meter only
Resolution (Precision) 0.1°
Sensor (Precision) 3 or 4-wire RTD Class A, 100ohms
Accuracy (Precision Plus) $\pm 0.1^\circ\text{F}$ ($\pm 0.05^\circ\text{C}$) meter only
Resolution (Precision Plus) 0.01° Auto-Ranging to 0.1° above 199.9°
Sensor (Precision Plus) 3 or 4-wire RTD 1/10 DIN, 100 ohms
Probe Interchangeable
Auto-Off After 10 min. to save battery life
Battery 3 x AAA, 2,000 hrs.
Operating Range -4 to 122°F (-20 to 50°C)
Certificate NIST-traceable certificate included

Reference Thermometer

Range -328 to 400°F (-200 to 200°C)
Accuracy $\pm 0.05^\circ\text{F}$ ($\pm 0.03^\circ\text{C}$)
Resolution 0.01°
Probe 4W RTD 1/10 DIN, fixed
Battery 3 x AAA, 2,000 hrs.
Operating Range -4 to 122°F (-20 to 50°C)
Certificate UKAS Accredited Certificate included

ACCESSORIES/RELATED ITEMS



Standard Protective Boot
(THS-830-227)



Rubber Boot w/ Probe Holder
(THS-830-255)



SST Wall Bracket w/Probe Holder
(THS-832-050)



Duracell Procell AAA Battery, 4-pack
(PC2400)



ThermoWorks

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Operating Instructions

INSTRUMENT OPERATION - Connect a probe via the socket located on the top of the instrument (where applicable). Screw the collar of the plug, finger-tight to ensure a secure connection (do not over tighten). The instrument is switched on by pressing the ON/OFF button. Apply the tip of the probe to the substance, medium, or surface to be measured. The instrument reading may take a few seconds to stabilize, depending on the nature of the measurement and sensitivity of the probe.

HOLD (PRECISION, PRECISION PLUS ONLY)

Press the HOLD button to freeze the display. Press again to continue measuring.

°C/°F - Press and hold the ON/OFF button for 5 seconds upon start up and the displayed temperature will change from °F to °C.

MAX/MIN (PRECISION, PRECISION PLUS ONLY)

Press the MAX/MIN button to display the values. The instrument retains the max/min values when switched off. To reset, press the MAX/MIN button for three seconds, 'rst' will be displayed.

TRIM (PRECISION, PRECISION PLUS ONLY)

Press the MAX/MIN and ON/OFF buttons at start-up for five seconds to enter (Offset is displayed). Press HOLD (up) or MAX/MIN (down) to set the trim value (maximum of $\pm 3.6^{\circ}\text{F}$). Press the ON/OFF button to save the value and exit Trim mode.

AUTO-OFF - The unit will switch off automatically after 10 minutes. To disable auto off press the HOLD button while switching on the instrument (this is reset when the instrument is switched off).

OPEN CIRCUIT/FAULTY PROBE - If the probe has developed an 'Open Circuit' fault the instrument will display 'Err'.

SENSORS - This instrument should only be used with PT100 (platinum resistance probes, $0^{\circ}\text{C} = 100$ ohms) BS EN 60751 fitted with suitable miniature plug (where applicable).

BATTERY REPLACEMENT - The instrument will display 'LO BAT' to warn that the batteries will need changing soon. The instrument continues to measure accurately but after further usage the instrument will display 'flat bat' and shutdown. Replace the batteries with three AAA batteries located under the rear cover that is held in place by a single screw.

INSTRUMENT CLEANING - Clean the instrument regularly with an anti-bacterial probe wipe to avoid potential food-borne bacteria growth.

WARNING - IPA and other solvents may cause damage to the case and screen of this instrument.

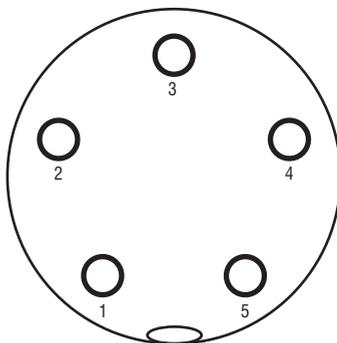
GUARANTEE - This instrument carries a two-year warranty against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of ThermoWorks, be either repaired or replaced without charge. This warranty does not apply to probes, where a six-month period is offered. Full details of liability are available within ThermoWorks' Terms & Conditions of Sale at www.thermoworks.com/product-warranty.

For warranty, service, and technical assistance, please contact ThermoWorks' Technical Support at (801) 756-7705 or email at techsupport@thermoworks.com.

**Probe Wiring Diagram
PT100 Binder Plug Wiring**

Precision / Precision Plus Thermometers

| Pin | Function |
|-----|-----------|
| 1 | + |
| 2 | + |
| 3 | -(3 Wire) |
| 4 | -(4 Wire) |
| 5 | Shield |



Pin numbering as viewed from rear