

# INSTRUMENT RECORD CARD

Model

Order Code



ThermaQ

231-050

## CALIBRATION

	212°F (100°C)	1832°F (1000°C)
Thermocouple		

Serial no. \_\_\_\_\_

Calibrated by \_\_\_\_\_ Date \_\_\_\_\_

This instrument has been checked or calibrated against reference instrument(s) calibrated by a UKAS Accredited Calibration Laboratory.



# ThermoWorks

## ThermaQ®



# ThermoWorks

1762 W. 20 S. #100, Lindon, UT 84042  
Ph: 801-756-7705 Fax: 801-756-8948  
www.thermoworks.com



## Operating Instructions

**INSTRUMENT OPERATION** - Connect probe(s) via the sockets located at the top of ThermoQ. Switch on and insert the tip of the probe(s) into the item being measured.

**ON/OFF AND BACKLIGHT** - Press ON/OFF once to power on ThermoQ. Pressing ON/OFF anytime the unit is on will enable the backlight for 10 seconds. Press and hold ON/OFF for 2 seconds to power down.

**°F/°C** - Press and hold ON/OFF button for five seconds at start-up.

**VOLUME** - Press the UP and DOWN arrows to toggle volume levels and turn off audible alarms.

**MIN/MAX** - MIN and MAX temperatures are constantly shown for both channels and can be reset by turning ThermoQ off and on again.

**SETTING ALARMS** - Press the SET button to start setting high and low alarms. 'SET' will display in channel 1 and HI will begin to flash. Use the UP and DOWN arrows to set the desired high alarm. Press SET again and LO will start to flash. Use the UP and DOWN arrows to set the desired low alarm. Pressing SET again will toggle to channel 2, repeat the process.

**ALARMS** - If an alarm is triggered the channel's display will begin to flash with the set HI or LO temperature, and a unique alarm will sound. Channel 1 alarm is (beep, pause, beep). Channel 2 is (beep beep, pause, beep beep). If both Channels are alarming the beep pattern is (beep beep beep, pause, beep beep beep). Once an alarm sounds any button press will mute the alarm. The display will continue to flash while temperature is outside the set temperatures.

**DISABLE CHANNEL** - When only using one probe disable the other channel by setting the LO alarm below -148°F (-100°C) otherwise the alarm will sound and 'Err' will be displayed. When the channel has been disabled, 'OFF' will appear in the display. To turn channel on again simply set LO alarm to -148°F (-100°C) or above.

**OPEN CIRCUIT/FAULTY PROBE** - If a probe is disconnected or has developed an 'Open Circuit' fault the instrument will display 'Err' and the alarm will sound.

**BATTERY REPLACEMENT** - The instrument will display a low battery symbol to warn that the batteries need changing soon. The instrument will continue to measure accurately, however with continued use ThermoQ will display 'flat bat' and

shutdown. Replace the three AAA batteries located under the rear case half that is held in place by six screws. Before replacing, check the seal for damage. Carefully replace the rear case half, re-fit and tighten the screws.

**OFFSET TRIM** - Users can offset temperature readings by 0.1° increments. Press and hold the UP and DOWN arrows together for 5 seconds. 'Offset' will scroll across channel 1 then display current offset. Using the UP and DOWN arrows set desired offset for channel 1. A maximum of  $\pm 9^{\circ}\text{F}$  or  $\pm 5^{\circ}\text{C}$  offset can be applied. Press SET to switch to channel 2, proceed to set offset. Pressing SET again will save adjustments and return to the normal display.

**GUARANTEE** - ThermoQ 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. The product warranty does not cover damage caused by fair wear and tear, abnormal storage conditions, incorrect use, misuse, abuse, neglect, misapplication or modification. Full details of liability are available within ThermoWorks Terms & Conditions of Sale at [www.thermoworks.com](http://www.thermoworks.com).

In line with our policy of continuous development, we reserve the right to amend our product specification without prior notice.

**TECHNICAL SUPPORT** - For warranty, service, and technical assistance, please contact ThermoWorks' Technical Support at (801) 756-7705 or email at [techsupport@thermoworks.com](mailto:techsupport@thermoworks.com).

## SPECIFICATIONS

<b>Range</b>	-148 to 2500°F (-100 to 1372°C)
<b>Operating Environment</b>	4 to 122°F (-20 to 50°C)
<b>Resolution</b>	0.1° to 600°F (300°C) thereafter 1°
<b>Accuracy</b>	$\pm 0.7^{\circ}\text{F}$ ( $\pm 0.4^{\circ}\text{C}$ ), $\pm 0.1\%$ of reading
<b>Inputs</b>	2 Type K Thermocouple channels
<b>Battery</b>	3x 1.5V AAA, 3,000 hours
<b>Volume</b>	Level 1 - 94dB Level 2 - 96dB Level 3 - 98dB Level 4 - 100dB
<b>Water Resistance</b>	IP67 rated
<b>Display</b>	1.28 H x 1.68 W inches (33 H x 43 W mm) LCD
<b>Dimensions</b>	5.6 H x 2.8 W x 1.26 D inches (141 H x 71 W x 32 D mm)
<b>Weight</b>	0.50lb. (230g)
<b>Calibration</b>	Includes NIST-Traceable certificate