



# THERMAQ<sup>®</sup> BLUE With *Bluetooth*<sup>®</sup> LE Wireless Technology



## Operating Instructions

**INSTRUMENT OPERATION** - Connect the probe(s) via the miniature thermocouple socket(s) located on the end of the instrument. Apply the tip of the probe to the substance, medium or surface to be measured. The instrument reading may take several seconds to stabilise, depending on the nature of the measurement and sensitivity of the probe.

## **BUTTON FUNCTIONS**



### **Transfer/On-Off button**

ON - Press to turn the instrument on.

OFF - Hold down for 3 seconds to switch off.

MEASURE/TRANSFER - Press to measure and transfer result via Bluetooth (if connected).

CLEAR BONDING - See Bonding



### **Backlight button**

Press to toggle the backlight on and off. Note the backlight will switch off automatically after ten seconds.

**ALARMS** - The default setting is off. The high/low alarms can be switched on/off and adjusted through the ETI app. The current alarm status is indicated by the instruments display and status LED.

**SENSORS** - Only use type K (Nickel Chromium/Nickel Aluminium) thermocouple probes (to BS EN 60584-1:2013) fitted with suitable miniature type K thermocouple plugs.

**TEMPERATURE MEASUREMENTS** - The instrument measures its inputs at a set measurement interval and displays the value in °C or °F. If Sensor 2 is switched on, the display will alternate between the two sensor readings every 5 seconds with 'Sen 1' & 'Sen 2' indicating which sensor reading is currently being displayed.

**CONNECTION** - Use a Bluetooth® Low Energy 'Smart or Smart Ready' iOS or Android™ host device with the ETI app installed to make connections to the instrument.

The ETI app can be downloaded free from the App Store (Apple devices) or on Google Play™ (Android devices)



For full device compatibility visit [etiltd.com](http://etiltd.com). Open the ETI app and connect to the device via the Devices screen, use the instrument's serial number to select the correct device from the list. Once connected the ETI app will begin receiving and storing measurement data.

**Please note:** When not connected the instrument continues to measure using its current settings but no readings are stored in the instrument.

**SETTINGS** - Adjustable via the ETI app include: °C or °F, Measurement Interval, Auto-off Interval, Sensor Name(s) and High/Low Alarm levels. Sensor 2 can be set on/off. All settings are stored in the instrument and are downloaded to the ETI app on connection.

**AUTO-OFF** - If the instrument is not connected to Bluetooth within the set Auto-off interval, it will shut down. This function can be switched off via the ETI app.

**ALARM STATUS LED** - A red flash indicates a temperature is in an alarm condition and a green flash indicates the temperatures are within the set alarm levels. The LED flashes every measurement whether connected via Bluetooth or not.

**OPEN CIRCUIT/FAULTY PROBE** - If the probe has developed an 'open circuit' fault or is not present the instrument will display 'Err'.

**BONDING** - This instrument does not need to be paired/bonded to your host device. Pairing/Bonding may cause connection issues within Apps. If you encounter connection problems please clear bonding as described below.

Clear Bonding - start with the instrument switched off, press and hold down the Transfer button for approximately 5 seconds until the display shows 'clr bond'.

**BATTERY STATUS** - This is indicated by the ETI app and the instrument's display using the battery symbol. When the battery level falls below a safe level the instrument displays 'Flat bat' before shutting down.

**BATTERY REPLACEMENT** - Unscrew the 4 screws located on the back of the instrument and remove rear case. This can be difficult especially after a long period but if done gradually at each corner the case will come apart. Replace the AA battery noting polarity. Refit rear case and refit screws taking care not to trap/pinch the seal. Tighten the screws evenly but do not overtighten as this will affect the instrument water resistance.

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

**GUARANTEE** - The ThermaQ Blue carries a two-year instrument guarantee against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of ETI, be either repaired or replaced without charge. The product guarantee does not cover damage caused by fair wear and tear, abnormal storage conditions, incorrect use, accidental misuse, abuse, neglect, misapplication or modification. Full details of liability are available with ETI's Terms & Conditions of Sale at [etiltd.com](http://etiltd.com). In line with our policy of continuous development, we reserve the right to amend our product specification without prior notice.

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