BLUETOOTH® THERMOMETERS

Digitalising your temperature monitoring provides the most accurate and organised data archive you could have, all whilst saving huge amounts of time and money.

Instead of manually writing temperatures in paper log books, accurate readings will be measured at the touch of a button. Rather than combing through physical archives to check historical data, you can instantly pull up recordings from any date. And with free user-friendly software or the option to integrate into an existing system, employee training couldn't be easier.

Our range of *Bluetooth®* thermometers includes temperature probes and infrared thermometers, with plenty of options available for you to find the right fit for your application.

BLUETOOTH BENEFITS

There are many benefits to switching to Bluetooth thermometers, including:

- Improved data accuracy and integrity

- Save time recording checks

- Organised and accessible data archive

- Time and date stamp on every reading

HOW BLUETOOTH THERMOMETERS WORK

Bluetooth thermometers pair with an app on your phone or tablet to store your temperature recordings. As you take temperatures with your thermometer, it will either manually or automatically transfer the readings to your device via Bluetooth, where you can view and analyse your data.

Our latest range of Bluetooth LE thermometers are also the perfect tools for software developers to integrate into new or existing custom built software An SDK is available upon request.

HOW DOES THE SOFTWARE DEVELOPMENT KIT (SDK) WORK?

The SDK gives the software developer working on iOS, Android or Windows the ability to fully integrate the functionality of the Bluetooth product. This means that the custom application, which may already be in use, allows the probes to enhance the system. This improves data capturing and helps businesses comply with procedures. For further information, please contact our technical sales team at technical@etiltd.com

THERMAPEN® ONE BLUE THERMOMETER

- New intuitive display
- Waterproof to IP67
- Securely transmits data to your smart device
- SDK & technical integration support available

new

The new Thermapen ONE Blue combines the latest *Bluetooth®* wireless technology with the same high accuracy and precision as the Thermapen One. Simply connect to your host device (iOS or Android), probe the item to be measured and press the button to securely transmit your temperature data of up to 50 metres via a secure connection.

The casing is washable and includes Biomaster product protection that reduces bacterial growth. The Thermapen One Blue is waterproof to IP67.

The unit includes a Dot Matrix Display which when paired with a remote device, will show items on the screen alongside the temperature value. Each item can include a text line, high/low temperature limit that gives the user in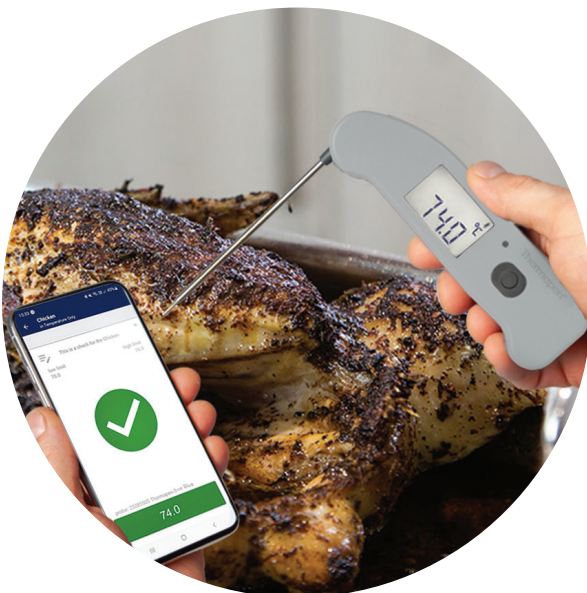stant, on-screen pass/fail feedback. Please Note: New display features only available when using the latest Software Development Kit.

The Thermapen One Blue incorporates a reduced tip, stainless steel penetration probe (Ø3.3 x 110 mm) that conveniently folds back through 180° into the side of the instrument when not in use.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Thermapen One Blue.

Dot Matrix Display

New intuitive display showing item names, high and low limits and a visual PASS or FAIL indication.

AUTO OFF | IP67 | SDK AVAILABLE | Biomaster PROTECTED | 2 YEAR GUARANTEE | MADE IN BRITAIN

Order code	Description
279-607	Thermapen One Blue - grey
830-701	Silicone boot with magnet - Clear
830-704	Silicone boot with magnet - Red
832-002	Stainless steel wall bracket

Specification	Thermapen One Blue
Range	-49.9 to 299.9 °C
Resolution	0.1 °C
Accuracy	±0.3 °C (-19.9 to 119.9 °C)
	±0.4 °C (-49.9 to 199.9 °C) otherwise ±1 °C
Bluetooth module	BLE 5.0
Battery	1 x 1.5 volt AAA
Battery life	500 hours (without backlight)
Sensor type	K thermocouple
Dimensions	19 x 50 x 157 mm
Weight	115 grams
FREE traceable certificate of calibration included	

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

THERMAPEN® IR BLUE THERMOMETER

- High accuracy - ideal for HACCP procedures
- Patented, automatic 360° rotational display
- Securely transmits data to your smart device
- SDK & technical integration support available

new

The new Thermapen IR Blue is two instruments in one compact unit. It combines the advanced technology of two ETI *Bluetooth®* products: the RayTemp Blue infrared thermometer and Thermapen Blue thermometer.

Housed in a robust ABS case containing Biomaster product protection that reduces bacterial growth. Simply connect to your host device (iOS or Android), probe or scan the item to be measured and press the button to securely transmit your temperature data via a secure connection of up to 50 metres.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Thermapen IR Blue.

- **Infrared thermometer**
  Simply aim the infrared thermometer at the target and press the scan button to display the surface temperature. **Please Note:** the infrared non-contact function will only measure when the probe is in the closed position.

  The Thermapen IR Blue thermometer incorporates a max/min temperature function accessed via the mode button (IR only). The distance to target ratio is 5:1, therefore the thermometer should be positioned as close to the target as possible. The default emissivity is 0.95 but can be adjusted via the host device.

- **Penetration probe**
  Opening the probe puts the instrument into probe mode, enabling you to take the core temperature of liquid and semi-solid foods using the fast response, stainless steel penetration probe (Ø3.3 x 110 mm). It will display the temperature in just 3 seconds. The probe conveniently folds back through 180° into the side of the instrument when not in use.

Patented auto-rotating display

Order code	Description
228-965	Thermapen IR Blue
830-480	Protective silicone boot
832-002	Stainless steel wall bracket
830-485	Silicone boot - glow in dark

MAX/MIN · AUTO OFF · 360° · SDK AVAILABLE · Biomaster PROTECTED · 2 YEAR GUARANTEE · MADE IN BRITAIN

Specification	Thermapen IR Blue
Range - infrared	-49.9 to 349.9 °C
Range - probe	-49.9 to 299.9 °C
Resolution	0.1 °C
Accuracy - infrared	±1 °C (0 to 100 °C) otherwise ±2 °C or ±2 % of reading whichever is greater
Accuracy - probe	±0.4 °C (-49.9 to 199.9 °C)
Bluetooth module	BLE 5.0
Field of view	Target ratio 5:1
Emissivity	0.95 default - adjustable via remote device
Battery	2 x 3 volt CR2032 lithium coin cell
Battery life	1000 hours - continuous use
Display	12 mm (horizontal) & 10 mm (vertical) LCD
Dimensions	19 x 50 x 157 mm
Weight	125 grams
FREE traceable certificate of calibration included (probe & IR)	

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

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TEMPTEST® BLUE THERMOMETER

- Waterproof IP67, compact design
- Automatic 360° rotational display
- SDK & technical integration support available
- Securely transmits data to your smart device

The TempTest Blue combines *Bluetooth®* wireless technology with high accuracy, precision and fast response. Simply pair it with your device (iOS or Android), probe the item to be measured and press the button to transmit your temperature data. The TempTest Blue thermometer features a secure Bluetooth range of up to 50 metres.

The thermometer is housed in a waterproof IP67 case with an ergonomic rubber seal and includes Biomaster product protection to reduce bacterial growth. The unit incorporates a stainless steel food penetration probe (Ø3.3 x 80 mm) with fast response tip. The true temperature of a product can be measured in just three seconds.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the TempTest Blue.
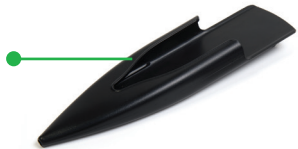
- **Protective silicone boot**
  Protect your instrument against accidental damage by fitting a protective silicone boot.

Example of app

Holster belt clip and wall bracket

Specification	TempTest Blue
Range	-49.9 to 299.9 °C
Resolution	0.1 °C/°F
Accuracy	±0.4 °C (-49.9 to 199.9 °C)
	otherwise ±1 °C
Bluetooth module	BLE
Battery	2 x 1.5 volt AAA
Battery life	1000 hours - continuous use
Sensor type	K thermocouple
Display	11 mm LCD
Dimensions	17 x 47 x 200 mm (inc. probe)
Weight	105 grams
FREE traceable certificate of calibration included	

Order code	Description
292-910	TempTest Blue
830-431	Protective silicone boot - white*
830-550	TempTest holster belt clip & wall bracket
***Various colours are available. See page 9 for details.**	

Please note: BLE thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

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THERMA K BLUE THERMOMETER

- Securely transmits data to your device
- Compact & robust design
- Interchangeable thermocouple probes
- SDK & technical integration support available

COMING SOON

Introducing the new Therma K Blue thermometer, designed and manufactured in the UK for release in 2024. This thermometer includes many benefits found in the Therma 1 model, but with the added convenience of *Bluetooth*® wireless technology.

Connecting to your host device (iOS or Android) is simple. Just probe the item you want to measure, press the button, and securely transmit your temperature data via a Bluetooth connection that works up to 50 metres away.

Housed in a durable ABS case, designed with Biomaster product protection to reduce bacterial growth. The large, easy-to-read, LCD display shows open circuit, low battery, and Bluetooth connection indicators. Powered by three AAA batteries that give a minimum of 3000 hours of battery life. If not connected, the instrument will power off automatically after ten minutes to maximise battery life. This feature can be disabled if needed through the software.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Therma K Blue.

<div style="sidebar">BLUETOOTH®</div>

Penetration probe (123-160)
For alternative probes
see pages 77 to 83

- Stainless steel wall bracket & white silicone boot (832-050) screws not supplied.

Order code	Description
292-041	Therma K Blue
123-160	Penetration probe
832-050	Therma series s/s wall bracket & boot
830-221	Protective silicone boot - white*
Therma K Blue is exclusive of probe(s) ***Various colours are available. See page 14 for details.**	

Specification	Therma K Blue
Range	-199.9 to 1372 °C
Resolution	0.1 °C to 999.9 °C thereafter 1°C
Accuracy	±0.4 °C ±0.1%
Bluetooth module	BLE 5.0
Battery & life	3 x 1.5 volt AAA - 3000 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	140 grams
FREE traceable certificate of calibration included	

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Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

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THERMA T BLUE THERMOMETER

- High accuracy ±0.2°C
- Interchangeable thermocouple probes
- SDK & technical integration support available
- FREE traceable certificate of calibration

COMING SOON

Introducing the new Therma T Blue thermometer, set to be released in 2024. Designed and manufactured in the UK, this thermometer boasts all the benefits of the Therma 1T model, with the added convenience of *Bluetooth®* wireless technology.

It is easy to connect the thermometer to your host device (iOS or Android) Simply probe the item you want to measure, press the button, and securely transmit your temperature data via a Bluetooth connection that works up to 50 metres away.

The Therma T Blue thermometer is built to last, with a durable ABS case and Biomaster product protection to reduce bacterial growth. The large, easy-to-read LCD display shows open circuit, low battery, and Bluetooth connection indicators. Powered by three AAA batteries, the unit offers 3000 hours of battery life. If not connected, the thermometer will automatically power off after ten minutes to maximise battery life. This feature can be disabled if needed through the software.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Therma T Blue.
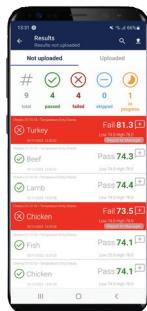
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Fast response probe (127-159)
For alternative probes
see pages 77 to 83

Example of app

- Protective silicone boot
  Protect your instrument from accidental damage. Various colours are available - see page 14.

Order code	Description
292-107	Therma T Blue
127-159	Fast response probe
832-050	Therma series s/s wall bracket & boot
830-221	Protective silicone boot - white*

Therma T Blue is exclusive of probe(s)
*Various colours are available. See page 14 for details.

Specification	Therma T Blue
Range	-199.9 to 400 °C
Resolution	0.1 °C
Accuracy	±0.2°C ±0.1%
Bluetooth module	BLE 5.0
Battery & life	3 x 1.5 volt AAA - 3000 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	140 grams
FREE traceable certificate of calibration included	

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

THERMA 20 BLUE THERMOMETER

- Securely transmits data to your device
- Meets the European Standard EN 13485
- Optional test caps for accuracy checks
- SDK & technical integration support available

COMING SOON

Designed and manufactured in the UK, the new Therma 20 Blue thermometer incorporates *Bluetooth®* wireless technology in addition to the standard benefits of the Therma 20. To use, simply connect the thermometer to your host device (iOS or Android), probe the item to be measured, and press the button to securely transmit your temperature data via a secure Bluetooth connection that can reach up to 50 metres.

Housed in a robust ABS case that contains Biomaster product protection, which helps reduce bacterial growth. The unit comes with an easy-to-use Lumberg screw-locking connector that allows the use of a wide range of interchangeable thermistor probes and self-calibration test caps to perform accuracy checks.

The Therma 20 Blue features a large, easy-to-read, LCD display that shows open circuit, low battery, and Bluetooth connection indication. Powered by three AAA batteries that provide 3000 hours of battery life. When not connected, the instrument will power off automatically after a few minutes, maximising battery life. This feature can be disabled via the software if it is not required.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Therma 20 Blue.

Thermistor penetration probe (174-166)
For alternative probes see page 86 and 87.

- **Protective silicone boot**
  Protect your instrument from accidental damage. Various colours are available - see page 14.

- **Thermistor test caps**
  For checking the accuracy of your thermometer

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Order code	Description
292-040	Therma 20 Blue
174-166	Thermistor penetration probe
286-001	Thermistor test cap -18 °C
286-002	Thermistor test cap 0 °C
286-003	Thermistor test cap 3 °C
286-004	Thermistor test cap 70 °C
286-005	Thermistor test cap 100 °C
832-050	S/steel wall bracket & boot
830-221	Protective silicone boot - white*

Therma 20 Blue is exclusive of probe(s)
***Various colours are available, See page 14 for details**

Specification	Therma 20 Blue
Range	-39.9 to 149.9 °C
Resolution	0.1 °C
Instrument only accuracy	±0.2 °C
System accuracy - Thermistor	±0.4 °C (-24.9 to 109.9 °C)
Bluetooth module	BLE 5.0
Battery & life	3 x 1.5 volt AAA - 3000 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	130 grams

FREE traceable certificate of calibration included

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

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THERMA 22 BLUE THERMOMETER

- Utilises both type T thermocouple & thermistor probes
- SDK & technical integration support available
- Optional test caps for accuracy checks
- Fast response with high accuracy

The new Therma 22 Blue thermometer is designed and manufactured in the UK, and it comes with *Bluetooth®* wireless technology along with the standard benefits of the Therma 22 thermometer. To use it, you simply need to connect the thermometer to your host device (iOS or Android), insert the probe into the item to be measured, and press the button to transmit your temperature data securely via Bluetooth. The connection can reach up to 50 metres.
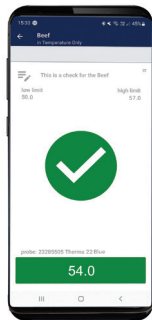
It is housed in a strong ABS case that contains Biomaster product protection, which helps reduce bacterial growth. Additionally, the unit includes an easy-to-use Lumberg screw-locking connector that allows for the use of a wide range of interchangeable thermistor probes and self-calibration test caps for accuracy checks.

The Therma 22 Blue is specifically designed for those who need the versatility of both thermocouple and thermistor probes in one compact unit. The thermistor sensor provides greater accuracy for food processing, while the type T thermocouple sensor extends the measurement range and provides faster response.

The Thermometer features a large, easy-to-read, LCD display that shows open circuit, low battery, and Bluetooth connection indication. Powered by three AAA batteries that provide 3000 hours of battery life. When not connected, the instrument will power off automatically after a few minutes, maximising battery life. This feature can be disabled via the software if it is not required.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Therma 22 Blue.

COMING SOON

Type T penetration probe (177-166)
For alternative type T thermocouple probes see page 84. For thermistor probes see pages 86 and 87.

- Protective silicone boot
  Various colours are available. see page 14.

Example of app

Order code	Description
292-022	Therma 22 Blue
177-166	Type T penetration probe
832-050	S/steel wall bracket & boot
830-221	Protective silicone boot - white*

Therma 22 Blue is exclusive of probe(s)
*Various colours are available, See page 14 for details

Specification	Therma 22 Blue
Range - Thermistor	-39.9 to 149.9 °C
Range - Type T t/c	-199.9 to 400 °C
Resolution - Thermistor	0.1 °C
Resolution - Type T t/c	0.1 °C to 300 °C thereafter 1 °C
Instrument only accuracy	±0.2 °C
System accuracy - Thermistor	±0.4 °C (-24.9 to 109.9 °C)
System accuracy - Type T t/c	±0.5 °C (-49.9 to 149.9 °C)
Bluetooth module	BLE 5.0
Battery & life	3 x 1.5 volt AAA - 3000 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	130 grams

FREE traceable certificate of calibration included

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

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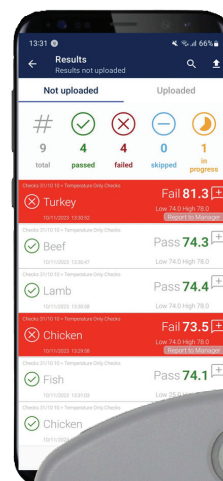BLUETOOTH®

THERMAPEN® BLUE THERMOMETER

- Reaches temperature in just 3 seconds
- Securely transmits data to your smart device
- Helps your business to be HACCP compliant
- Colour-coded ID for different applications

The Thermapen Blue combines *Bluetooth® wireless technology* with the same high accuracy, precision and speed as the Thermapen. Simply connect to your host device (iOS or Android), probe the item to be measured and press the button to securely transmit your temperature data via a secure connection of up to 50 metres.

The casing is washable and includes Biomaster product protection that reduces bacterial growth and the ergonomic rubber seal minimises the risk of the ingress of water, dust or food. The Thermapen Blue is waterproof to IP66/67. The true temperature of a product can be tested in just three seconds.

The Thermapen Blue incorporates a reduced tip, stainless steel, penetration probe (Ø3.3 x 110 mm) that conveniently folds back through 180° into the side of the instrument when not in use.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Thermapen Blue.

Example of app

Colour-coded

Order code	Description
179-607	Thermapen Blue - grey
179-647	Thermapen Blue - red
179-657	Thermapen Blue - blue
830-620	Silicone boot - glow in dark/magnets
832-002	Stainless steel wall bracket

Specification	Thermapen Blue
Range	-49.9 to 299.9 °C
Resolution	0.1 °C via remote device
Accuracy	±0.4 °C (-49.9 to 199.9 °C)
	otherwise ±1 °C
Bluetooth module	BLE
Battery	1 x 1.5 volt AAA
Battery life	1000 hours - continuous use
Sensor type	K thermocouple
Dimensions	19 x 50 x 157 mm
Weight	112 grams
FREE traceable certificate of calibration included	

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Please note: BLE thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

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RAYTEMP® BLUE THERMOMETER

- Securely transmits data to your device
- Target distance/diameter ratio 5:1
- Time saving, paperless recordings
- FREE traceable certificate of calibration

Designed and manufactured in the UK, The RayTemp Blue infrared non-contact thermometer incorporates many of the features of the RayTemp 2, but with *Bluetooth*® wireless technology.

Simply connect to your host device (iOS or Android), press and hold the measure button and aim the thermometer at the target to display the surface temperature and securely transmit the data via a secure connection of up to 50 metres.

The unit incorporates a 5:1 optic ratio (target distance/diameter ratio) and therefore the thermometer should be positioned as close to the target as possible. The default emissivity is 0.95 but can be changed from 0.1 to 1, if required. The unit does not incorporate laser alignment, which will encourage users to get closer to the object being measured thus reducing inaccurate readings.

The RayTemp Blue features a two button keypad, incorporating measure and on/off function, and an auto-power-off facility that automatically turns the instrument off after 10 minutes, maximising battery life. Each unit is housed in a robust ABS case that contains Biomaster product protection which reduces bacterial growth.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the RayTemp Blue.

OPTIONAL ACCESSORIES:

- Protective silicone boot. Various colours are available - see page 14.
- Stainless steel wall bracket (832-050) & white silicone boot (screws not supplied)

Order code	Description
228-920	RayTemp Blue
832-050	Therma series s/s wall bracket & boot
830-221	Protective silicone boot - white*
814-132	Comparator
*Various colours are available. See page 14 for details.	

Specification	RayTemp Blue
Range	-49.9 to 349.9 °C
Resolution	0.1 °C/°F
Accuracy	±1 °C (0 to 100 °C) otherwise ±2 °C or ±2 % of reading whichever is greater
Field of view	Target ratio 5:1
Bluetooth module	BLE
Emissivity	0.95 default - adjustable 0.1 to 1
Battery & life	3 x 1.5 volt AAA - 3000 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	140 grams
FREE traceable certificate of calibration included	

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Please note: BLE thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.