



Remote Temperature Monitoring

ThermaData® loggers, WiFi or *Bluetooth*®



We have used our vast experience in temperature measurement, together with the latest technology, to create the ThermaData range of small, cost-effective, data-loggers, WiFi loggers and *Bluetooth*® wireless thermometers. All of which have been designed for ease of use and reliability.

applications for remote monitoring

There are many uses for data-loggers, WiFi loggers and *Bluetooth*® wireless thermometers for example; to ensure compliance with legislation, to help save costs, to ensure the quality of a product, process, or for research purposes in the following industries:

- food processing
- agriculture
- laboratories
- refrigeration
- environmental
- logistics
- museums & archives
- medical

The EC food industry directive suggests that organisations involved in food preparation, storage or transportation should have the ability to verify that the temperature of food has been kept at the correct levels. This is often referred to as due diligence. ThermaData loggers offer organisations a method of complying with food industry legislation by providing traceability from the moment the food is received to the time it is delivered to the customer. For shippers, data-loggers can verify that conditions inside the transportation vehicles have been maintained within the specified levels.

For growers of fresh produce, ThermaData loggers provide an accurate record of temperatures during the life cycle of a product, from farm to plate, i.e. during growth, preparation and transportation of produce, thus ensuring best quality.

The ThermaData WiFi loggers utilise the latest WiFi wireless technology. The WiFi loggers are a temperature monitoring system that remotely record the temperature of appliances and buildings. Each logger transmits the recorded data to a WiFi router connected to the internet which can be remotely accessed and viewed from a PC, laptop or tablet anywhere in the world.

The *Bluetooth*® wireless thermometers and probes transmit temperature data to your Android, iOS or *Bluetooth*® wireless device via a secure connection. These thermometers and probes have been specifically designed to eliminate the need for wires and connectors which often cause many traditional probes to break or fail.

UKAS Certificates of Calibration

Our in-house UKAS calibration laboratory offers certification for both temperature and humidity data-loggers. Each certificate indicates deviations from standards at various temperature or humidity check points. See pages 101 and 102 for more information.



ThermaData[®] Logger

blind recording thermometers

- visual display shows if limits are exceeded
- customised high/low alarm facility
- temperature range -40 to 85 °C
- FREE software to download



Remote
Monitoring

The ThermaData logger is a cost effective, self-contained temperature data-logger or blind recording thermometer that is designed to record the temperature of the surrounding environment. The ThermaData logger is housed in a water resistant polyethylene case and incorporates two LED status indicators.

The ThermaData Studio software allows the user to programme the logging sample/interval rate (1 to 255 minutes), the real-time clock, °C/°F, delayed start (maximum 23 hours, 59 minutes) or push-button start and a 12-character user ID. The software also incorporates a password protected calibration adjustment feature that allows the user to check the calibration of loggers and make minor adjustments of 0.5 °C (± 3 °C).

By selecting continuous logging in the software options, it is possible to start the ThermaData logger only once and never have to reset its parameters again, even if downloaded regularly. Unlike most low cost loggers, the ThermaData logger will continue recording during and after downloading the data.

The user can also set, within the software, high and low alarm values for a specific application. A push of the button will allow a simple visual inspection of the unit to show if either of these limits have been exceeded. A flashing red LED will warn the user that the alarm limits have been exceeded (reject) or a flashing green LED will advise the user that the alarm limits have not been exceeded (accept).

ThermaData Studio software

- The ThermaData Studio software is supplied as a FREE download. The ThermaData logger is connected to a PC via a USB port lead and by selecting the relevant icon the data can be downloaded and displayed either as a graph, table or summary. The information can then be analysed by zooming in, saving as a Studio File or exporting to other software packages.



colour-coded data-loggers

- Available in a variety of coloured cases; blue, white, yellow, green, red, brown and black. These colour-coded cases help to prevent cross-contamination by allowing the user to allocate a colour to a specific product or application. For example, in the food industry, green may be used for salads, blue for fish and red for raw meats etc.

Other applications include different coloured loggers for easy identification in for example; the building and construction industry where loggers can often blend in with the environment.



order code	description
293-001	ThermaData logger - blue
293-105	ThermaData logger - white
293-205	ThermaData logger - yellow
293-305	ThermaData logger - green
293-405	ThermaData logger - red
293-605	ThermaData logger - brown
293-701	ThermaData logger - black
293-104	USB lead

specification	ThermaData logger
range	-40 to 85 °C
resolution	0.5 °C
accuracy	± 1 °C (± 0.5 °C with calibration utility)
memory	2048 temperature readings
sample rate	1 minute to 255 minutes
battery	3.6 volt 1/2 AA lithium
battery life	minimum 3 years
dimensions	Ø55 x 25 mm
weight	40 grams

ThermaData® Loggers

temperature recording thermometers

- waterproof housing offering IP66/67 protection
- temperature range -40 to 85 °C or 125 °C
- resolution 0.1 °C, high accuracy ± 0.5 °C
- meets EN 12830, S & T, C & D, 1

The ThermaData logger Mk2 series consists of a comprehensive range of portable data-loggers utilising the latest in electronic technology. The ThermaData loggers are housed in waterproof, ergonomic cases that are designed to meet IP66/67 protection.

The ThermaData logger Mk2 range offers the choice of either blind data-loggers or data-loggers with an LCD display. Other options include internal and external temperature sensors/probes. The external probes can be either fixed or detachable via a waterproof three-pin connector. The remote temperature probes are supplied with either a one, two or three metre (where stated) PVC/PFA (*fixed*) or PUR/PVC (*detachable*) lead.

Each logger incorporates a red and green LED, the flashing green LED indicates that the logger is active/logging and the flashing red LED indicates that your customised preset alarms have been exceeded.



ThermaData Studio software

The ThermaData logger is connected to a PC via a USB cradle. By selecting the relevant icon the data can be downloaded and displayed either as a graph, table or summary. The information can be analysed by zooming in, saving as a Studio File or exporting as a text (.txt) or Excel (.xls) file to other software packages.

The ThermaData Studio software incorporates several useful functions, including the ability to display two traces on a graph, the trace colours are user selectable. All files can be viewed as thumbnail icons for easy identification.

The ThermaData Studio software will work equally with all ThermaData loggers. The software is both powerful and sophisticated, yet user-friendly enabling temperature data to be organised and analysed to provide management information. The software allows the user to programme the logging sample/interval rate (0.1 to 255 minutes), the real-time clock, °C or °F, delayed start (maximum 23 hours, 59 minutes and 59 seconds) or select a magnetic start option. It is also possible to include a 32-character user ID for each logger.

By selecting continuous logging in the software options, it is possible to start the ThermaData logger only once and never have to reset its parameters again, even if downloaded regularly. Unlike most low cost loggers, the ThermaData logger will continue recording during and after downloading the data.

The ThermaData Studio software is supplied as a FREE download. **Please note:** when initially ordering loggers it is necessary to order at least one ThermaData logger cradle.



ThermaData logger - model TB

blind with an internal sensor



- NTC thermistor sensor
- -40 to 85 °C
- records up to 4000 readings

order code	description	
295-001	model TB	

ThermaData logger - model TD

LCD with an internal sensor



- NTC thermistor sensor
- -30 to 85 °C
- records up to 4000 readings

order code	description	
296-001	model TD	

ThermaData logger - model TBF

blind logger with an external fixed sensor



- NTC thermistor sensor
- Ø3.3 x 100 mm probe, 1 metre PVC/PFA lead
- -40 to 125 °C
- records up to 4000 readings

order code	description	
295-101	model TBF	

ThermaData logger - model TDF

LCD with an external fixed sensor



- NTC thermistor sensor
- Ø3.3 x 100 mm probe, 1 metre PVC/PFA lead
- -40 to 125 °C
- records up to 4000 readings

order code	description	
296-101	model TDF	

ThermaData logger - model TB2F

blind with two external fixed sensors



- NTC thermistor sensors
- Ø3.3 x 100 mm probe, 1 metre PVC/PFA lead
- -40 to 125 °C (external)
- records up to 2 x 2000 readings

order code	description	
295-111	model TB2F	

ThermaData logger - model TD2F

LCD with two external fixed sensors



- NTC thermistor sensors
- Ø3.3 x 100 mm probe, 1 metre PVC/PFA lead
- -40 to 125 °C (external)
- records up to 2 x 2000 readings

order code	description	
296-111	model TD2F	

specification	all models
range - internal	-30/-40 to 85 °C - model dependant
range - external	-40 to 125 °C - model dependant
resolution	0.1 °C
accuracy	±0.5 °C (@ ambient -10 to 85 °C)
memory	4000 or 2 x 2000 readings
sample rate	0.1 to 255 minutes
battery	3.6 volt ½ AA lithium
battery life	approximately 18 months
display - blind	2 LED's
display - LCD	10 mm LCD/2 LED's
dimensions	Ø76 x 23 mm
weight	71 to 113 grams - model dependant

An optional protective silicone boot (white) is available (830-270) see page 34 for details

USB cradle & start magnet

Each USB cradle is supplied with a one metre PVC lead complete with a start magnet.



order code	description	
293-804	cradle & start magnet	

ThermaData® Loggers

humidity & temperature recording meters

- display toggles between humidity & temperature
- records up to a maximum of 16000 readings
- visual display of high & low alarm status
- choice of internal or remote sensors

The humidity and temperature ThermaData loggers measure and record both temperature and relative humidity (%rh) over the range of -20 to 85 °C and 0 to 100 %rh. At programmable intervals, the loggers will record simultaneously both temperature and humidity, recording up to a maximum of 16000 readings (8000 humidity and 8000 temperature).

With a choice of either LCD or a blind display, both options include an internal or external humidity and temperature sensor with a one metre lead. Each ThermaData logger incorporates two LED's, a flashing green LED indicates that the logger is active/logging and a flashing red LED indicates that your customised preset alarms have been exceeded.

The humidity and temperature ThermaData loggers are suitable for a diverse range of applications which include HVAC climate monitoring, QA monitoring of storage areas etc.

ThermaData Studio software

The ThermaData logger is connected to a PC via a USB cradle. By selecting the relevant icon the data can be downloaded and displayed either as a graph, table or summary. The information can be analysed by zooming in, saving as a Studio File or exporting to Excel (.xls) or as a text (.txt) file to other software packages.

The ThermaData Studio software is supplied as a FREE download. **Please note:** when initially ordering these loggers, it is necessary to order at least one ThermaData logger cradle.



order code	description	
295-061	blind model HTB - internal sensors	
296-061	LCD model HTD - internal sensors	
295-062	blind model HTBF - external sensors	
296-062	LCD model HTDF - external sensors	
293-804	USB cradle & magnet	
890-111	*UKAS 3-point Certificate	

*price when purchased with a new instrument



specification	temperature	humidity
range	-20 to 85 °C	0 to 100 %rh
resolution	0.1 °C	0.1 %rh
accuracy	±0.5 °C (0 to 45 °C) ±1 °C (-20 to 70 °C) ±1.5 °C (70 to 85 °C)	±3 %rh @ 25 °C (10 to 90 %rh)
hysteresis	n/a	±1 %rh
sensor type	silicon bandgap	capacitance polymer
memory		2 x 8000 readings
sample rate		0.1 to 255 minutes
battery		3.6 volt ½ AA lithium
battery life		minimum 2 years
display	10 mm LCD - toggles every 6 seconds/2 LED's	
dimensions		Ø76 x 23 mm
weight		80 grams approx. - model dependant

optional UKAS Certificate of Calibration available

Stainless Steel ThermaData® Loggers

blind recording thermometers

- integral USB interface for setup & download
- high temperature range -20 to 105 °C
- food grade 316 stainless steel housing
- 5 probe lengths available

These stainless steel data-loggers are ideal for food, pharmaceutical and other applications where a high temperature data-logger is required. The ThermaData logger is housed in a waterproof, food grade 316 stainless steel case to protect the logger from corrosion, impact and moisture (IP66/67).

The ThermaData logger software allows the user to programme the logging sample/interval rate (1 to 255 minutes), the real-time clock, °C/°F, delayed start (maximum 23 hours, 59 minutes) and a 12-character user ID. The software also incorporates a password protected calibration adjustment feature that allows the user to check the calibration of loggers and make minor adjustments of 0.5 °C (± 3 °C).

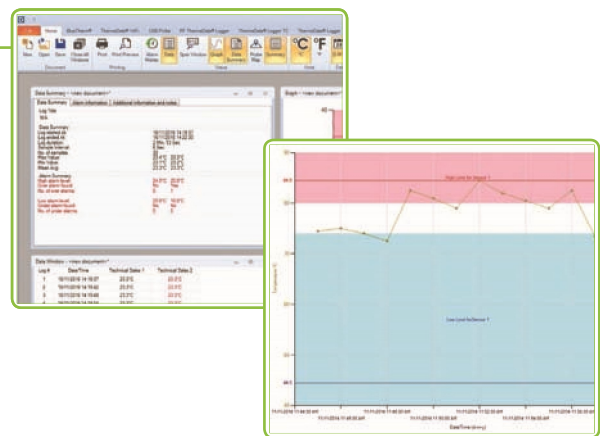
By selecting continuous logging in the software options, it is possible to start the logger only once and never have to reset its parameters again, even if downloaded regularly. Unlike most low cost loggers, the ThermaData stainless steel logger will continue recording during and after downloading the data.

The ThermaData logger is available in five options; without a probe, with a $\varnothing 3.3 \times 50$ mm penetration probe or $\varnothing 4.5 \times 100$ mm, $\varnothing 4.5 \times 150$ mm or $\varnothing 4.5 \times 200$ mm penetration probe, all with a $\varnothing 3.3$ reduced tip. Each logger is supplied with a two metre USB lead and FREE downloadable ThermaData Studio software.



ThermaData Studio software

The ThermaData logger is connected to a PC via the internal USB connector or a USB lead (supplied). By selecting the relevant icon the data can be downloaded and displayed either as a graph, table or summary. The user can also set, within the software, high and low alarm values for a specific application. The information can then be analysed by zooming in, saving as a Studio File or exporting to other software packages.



USB Connection Point

Simply unscrew the end cap to access the USB port. This allows the user to connect the logger to a PC and upload any data collected.



order code	description
293-900	stainless steel logger - without probe
293-930	stainless steel logger - 50 mm probe
293-931	stainless steel logger - 100 mm probe
293-932	stainless steel logger - 150 mm probe
293-933	stainless steel logger - 200 mm probe

supplied with a two metre USB lead & FREE downloadable ThermaData Studio software

specification	Stainless Steel ThermaData logger
range	-20 to 105 °C
resolution	0.5 °C
accuracy	± 1 °C (± 0.5 °C with calibration utility)
memory	2048 temperature readings
sample rate	1 minute to 255 minutes
battery	3.6 volt 2/3 AA lithium
battery life	minimum 3 years
dimensions	$\varnothing 22.5 \times 129$ mm (excluding probe)
weight	170 grams - model dependant

ThermaData® WiFi Loggers

wireless temperature monitoring

- email alerts user when alarm limits are exceeded
- access temperature data worldwide via internet
- NO ongoing or subscription charges
- programmable high/low alarm



The ThermaData WiFi loggers utilise the latest WiFi wireless technology. The loggers are a battery powered, cost-effective, temperature monitoring system that remotely records the temperature of appliances and buildings. Each logger transmits the recorded data to a WiFi router connected to the internet which can be accessed and viewed from a PC, laptop or tablet anywhere in the world.

The loggers have a range limited to the specification of the users WiFi router. Each logger has an intuitive LCD displaying; temperature, WiFi connection status, max/min recorded temperatures, alarm status and battery life.

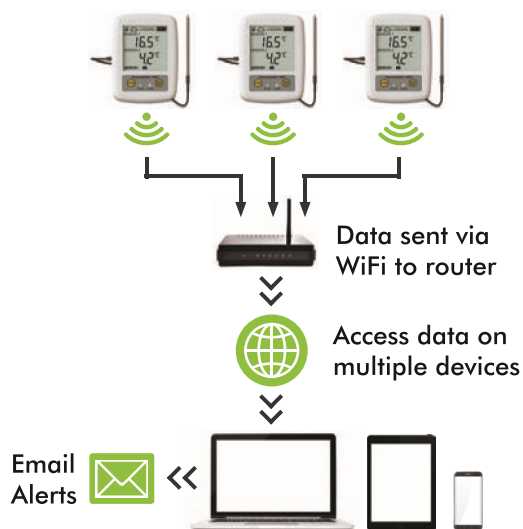
At programmable intervals, the loggers will record temperature from both sensors, recording up to a maximum of 18000 readings (9000 from each sensor). Each logger incorporates a red and green LED. The flashing green LED indicates that the logger is active/logging and the flashing red LED indicates that your customised preset alarms have been exceeded. Each unit is supplied with a USB lead. ThermaData Studio software is available to download FREE from our website and is licence free, no ongoing or subscription charges.

How does the ThermaData WiFi logger work?

Using the unique ID of each logger ThermaData Studio creates a secure connection between logger and software, which can be accessed and viewed anytime and anywhere with an internet connection. Each logger communicates directly to the WiFi router at set intervals to push data through the internet into ThermaData Studio. The information is available to be analysed and exported into a report format.



Simple setup and easy to use software makes the ThermaData® WiFi loggers perfect for HACCP analysis



ThermaData Studio Software

Both powerful and sophisticated, yet user-friendly, the ThermaData Studio software enables temperature data to be organised and analysed to provide management information.

The ThermaData Studio software has the ability to display up to 32 traces on a graph, the trace colours are user selectable. All files can be viewed as thumbnail icons for easy identification.

The software allows the user to programme the logging sample/interval rate (0.1 to 330 minutes), communication interval (sync) with PC, real-time clock, °C or °F and a manual start option. It is also possible to include a user ID for each logger.

Please note: WiFi routers have a range of 100 metres depending on the make, model, capabilities and setup of the router. Environmental conditions may also affect the signal strength.

ThermaData® WiFi Two Channel Thermistor Loggers

The ThermaData® WiFi thermistor loggers are supplied with a stainless steel general purpose probe (Ø3.3 x 100 mm) with a one metre PUR/PVC fixed lead which are suitable for a wide range of remote monitoring applications. **Please Note:** Model TD1F is supplied with one external remote probe and an internal sensor. Model TD2F is supplied with two external remote probes.

specification	model TD1F	model TD2F
range - internal	0 to 50 °C	n/a
range - external	-40 to 125 °C	-40 to 125 °C
resolution	0.1 °C/°F	
accuracy	±0.5 °C	
memory	2 x 9000 readings	
sample rate	0.1 to 330 minutes	
battery & life	2 x 1.5 volt AA - approx. 12 months	
display	12 mm LCD/2 LED's	
dimensions	29 x 72.5 x 96 mm	
weight	165 grams	
FREE traceable certificate of calibration included		



order code	description
298-011	model TD1F
298-111	model TD2F
830-880	protective boot (black)
inclusive of thermistor probes	

ThermaData® WiFi Two Channel Thermocouple Loggers










The ThermaData® WiFi thermocouple loggers are available in two sensor types, type K and type T thermocouple. **Please Note:** Each logger is supplied exclusive of probes, please see below for a small selection of probes available or for alternative designs see pages 51 and 71 to 76 or contact our sales office.

specification	ThermaData WiFi - Thermocouple
range - type K	-100 to 1372 °C
range - type T	-100 to 400 °C
resolution	0.1 °C/°F to 999.9 thereafter 1 °C
accuracy	±0.4 °C ±0.1 % of reading
memory	2 x 9000 readings
sample rate	0.1 to 330 minutes
battery & life	2 x 1.5 volt AA - approx. 12 months
display	12 mm LCD/2 LED's
dimensions	29 x 72.5 x 96 mm
weight	165 grams
FREE traceable certificate of calibration included	



general purpose probes
(133-158)

order code	description
298-121	model TD2TC - type K
298-721	model TD2TC - type T
830-880	protective boot (black)
exclusive of thermocouple probes	

		order code
general purpose probe    Ø3.3 x 100 mm	This stainless steel probe is suitable for a wide range of applications. Supplied with a one metre PTFE insulated lead and connector. <ul style="list-style-type: none"> • response time less than 3 seconds • probe temperature range -75 to 250 °C 	133-158
food simulant probe    9 x 100 x 100 mm	This polypropylene simulant probe is designed for use in refrigeration, food storage and chill cabinets. Supplied with a one metre PTFE insulated lead and connector. <ul style="list-style-type: none"> • probe temperature range 0 to 100 °C 	133-350
heavy duty PTFE wire probe    Ø2.4 x 1000 or 2000 mm	This heavy duty, PTFE insulated wire probe is ideal for measuring the air temperature in fridges, freezers, ovens etc. <ul style="list-style-type: none"> • response time less than 0.5 of a second • probe temperature range -75 to 250 °C 	133-372 (1000 mm) 133-373 (2000 mm)

Please note: for type T thermocouple probes, replace the third digit (3) of the order code with the number 7

Thermocouple ThermaData[®] Loggers for high temperature applications

- water resistant housing offering IP65 protection
- 2 channel type K or type T thermocouple input
- wide temperature range -100 to 1372 °C
- visual display of high & low alarm status

These two input Thermocouple ThermaData loggers are housed in a water resistant, ergonomic case that is designed to meet IP65 protection. Two models are available, either blind or with an LCD display.

The ThermaData loggers measure temperature over the range of -100 to 1372 °C (type K thermocouple) with a 0.1 °C resolution, auto-ranging to 1 °C over the range of 301 to 1372 °C. At programmable intervals the loggers will record the temperature, up to a maximum of 16000 readings or 2 x 8000 readings.

Each logger incorporates a red and green LED, the flashing green LED indicates that the logger is active/logging and the flashing red LED indicates that your customised preset alarms have been exceeded. Each logger is supplied with a USB lead and FREE downloadable software.

For details of the wide range of interchangeable type K or T thermocouple probes available, see pages 71 to 76.



ThermaData Studio software

The ThermaData logger is connected to a PC via a USB port lead. By selecting the relevant icon the data can be downloaded and displayed either as a graph, table or summary. The information can then be analysed by zooming in, saving as Studio File or exporting to other software packages.



USB Connection Point

Simply remove the end cap to access the USB port. This allows the user to connect the logger to a PC via the USB lead (supplied) and upload the temperature readings collected.

order code	description
291-501	T/C TD logger type K - blind
292-501	T/C TD logger type K - LCD
291-571	T/C TD logger type T - blind
292-571	T/C TD logger type T - LCD
830-210	protective silicone boot - white
832-950	flexible tripod

T/C ThermaData loggers are exclusive of probes



specification	T/C ThermaData logger
range - type K t/c	-100 to 1372 °C
range - type T t/c	-100 to 400 °C
operating range	-20 to 50 °C
resolution	0.1 °C to 300 °C thereafter 1 °C
accuracy	±0.4 °C ± 0.1 % of reading
memory	16000 or 2 x 8000 readings
sample rate	0.1 to 255 minutes
battery	AA Tadiran - Li-SOCl
battery life	maximum 3 years @ 20 °C
sensor type	K or T thermocouple
display	12 mm LCD
dimensions	34 x 66 x 109 mm
weight	177 grams

FREE traceable certificate of calibration included

ThermaQ[®] Blue

with *Bluetooth*[®] LE wireless technology

- two channel type K input - dual monitoring
- ThermaQ[®] App for iOS & Android

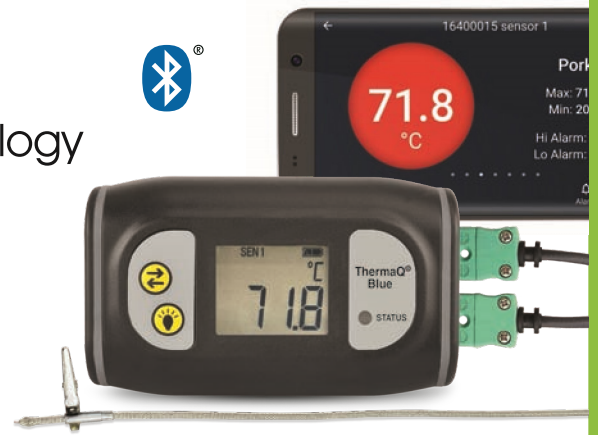
The ThermaQ Blue thermometer is designed to monitor temperatures remotely. Transmitting temperature data to your iOS, Android or *Bluetooth*[®] wireless device via a secure connection of up to 50 metres.

Each unit is housed in an ergonomic case and incorporates a backlit LCD and 2 LED's which indicate alarm status. For ThermaQ Blue probes, see pages 39, 51 and 71 to 76.

Available as a FREE download, the 'ThermaQ App' software reads two temperatures and provides simple-to-set high and low alarms. The 'ThermaQ App' can export saved data for further analysis as an Excel (.csv) file.

order code	description
292-921	ThermaQ Blue
133-041	crocodile clip oven probe
830-210	protective silicone boot - white
the ThermaQ Blue is exclusive of probes	

Please note: Bluetooth LE thermometers have a range of 50 metres depending on the users smart device make and model. Environmental conditions may also affect the signal strength.



crocodile clip oven probe (133-041)



specification	ThermaQ Blue
range	-199.9 to 1372 °C
resolution	0.1 °C/°F to 999.9 thereafter 1 °C
accuracy	±0.4 °C ±0.1 % of reading
Bluetooth module	Bluetooth LE
battery & life	1 x AA - 4000 hours
sensor type	K thermocouple
display	12 mm LCD
dimensions	34 x 66 x 109 mm
weight	172 grams
FREE traceable certificate of calibration included	

Remote Monitoring

ThermaQ[®] WiFi Logger

wireless temperature monitoring

- email alerts user when alarm limits are exceeded
- access temperature data worldwide via internet

The ThermaQ WiFi logger utilises the latest WiFi wireless technology. The logger is a battery powered, temperature monitoring system. The logger transmits the recorded data to a WiFi router connected to the internet which can be accessed and viewed from a PC, laptop or tablet anywhere in the world.

The logger has a range limited to the specification of the users WiFi router. Each logger has a intuitive LCD displaying temperature (two-channel), WiFi connection status, max/min recorded temperatures, alarm status and battery life.

Available as a FREE download, the 'ThermaQ App' provides simple-to-set high and low alarms. Saved data can be exported for analysis as an Excel (.csv) file. For details of the wide range of interchangeable type K thermocouple probes available, see pages 39, 51 and 71 to 76.

order code	description
299-121	ThermaQ WiFi
133-177	penetration probe with braided lead
830-880	protective boot - black
the ThermaQ WiFi is exclusive of probes	

new



penetration probe (133-177)

crocodile clip oven probe (133-041)



specification	ThermaQ WiFi
range	-100 to 1372 °C
resolution	0.1 °C/°F to 999.9 thereafter 1 °C
accuracy	±0.4 °C ±0.1 % of reading
memory	2 x 9000 readings
sample rate	0.1 to 330 minutes
battery & life	2 x 1.5 volt AA - approx. 12 months
display	12 mm LCD/2 LED's
dimensions	29 x 72.5 x 96 mm
weight	165 grams
FREE traceable certificate of calibration included	

BlueTherm[®] One

with *Bluetooth*[®] LE wireless technology

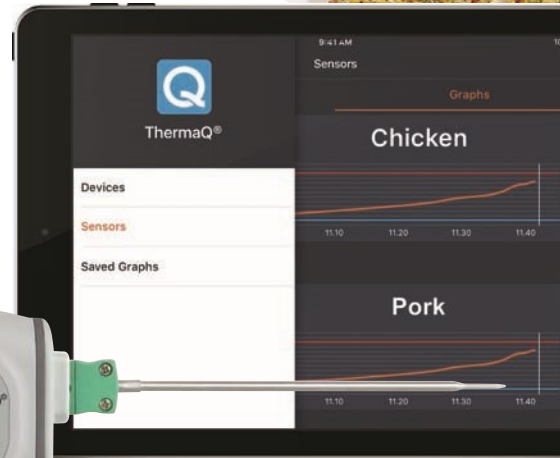
- water resistant housing offering IP65 protection
- interchangeable thermocouple probes
- SDK & technical support available



The BlueTherm One thermometer transmits temperature data to your iOS, Android or *Bluetooth*[®] wireless device via a secure connection of up to 50 metres. This thermometer is specifically designed to eliminate the need for wires which often cause many traditional probes to break or fail.

Each unit is housed in an ergonomic case that includes 'Biomaster' additive that reduces bacterial growth. The BlueTherm One incorporates a large LCD and a single LED which indicates *Bluetooth*[®] connection status. A wide range of type K thermocouple probes can be connected to the BlueTherm One, see below and pages 39, 51 and 71 to 76 for details.

Available as a FREE download, the 'ThermaQ App' software reads the temperature and provides simple-to-set high and low alarms. This App includes programmable alerts and notifications to prompt changes and also logs data from the probe to a graph. A Software Developer Kit (SDK) is available upon request to allow integrators to write custom Apps to communicate with the BlueTherm One.



fast response penetration probe
Ø3.3 x 130 mm (133-153)








specification	BlueTherm One
range	-199.9 to 1372 °C
resolution	0.1 °C/°F to 999.9 thereafter 1 °C
accuracy	±0.4 °C ±0.1 % of reading
Bluetooth module	Bluetooth LE
battery & life	1 x AA - 3000 hours
sensor type	K thermocouple
display	12 mm LCD
dimensions	34 x 66 x 109 mm
weight	165 grams

FREE traceable certificate of calibration included

order code	description
292-911	BlueTherm One
830-210	protective silicone boot - white
831-200	belt clip

the BlueTherm One is exclusive of probe

		order code
fast response penetration probe   HIGH ACCURACY Ø3.3 x 80 or 120 mm	This reduced tip (Ø1.8 x 25 mm), fast response, stainless steel penetration probe is versatile and ideal for liquids or semi-solids. <ul style="list-style-type: none"> • response time less than three seconds • probe temperature range -75 to 250 °C 	133-153 (120 mm) 133-154 (80 mm)
air or gas probe   HIGH ACCURACY Ø3.3 x 120 mm	This probe has a perforated stainless steel tip for fast response. Ideal for chill cabinets, fridges, freezers and HVAC units. <ul style="list-style-type: none"> • response time less than one second • probe temperature range -75 to 250 °C 	133-301
surface probe  Ø8 x 120 mm	This stainless steel surface probe uses flat ribbon technology ensuring a fast, accurate response with minimal heat loss. A right-angled version is also available. <ul style="list-style-type: none"> • response time less than one second • probe temperature range -75 to 250 °C 	133-045 133-046 (right-angled)

Please note: Bluetooth LE thermometers have a range of 50 metres depending on the users smart device make and model. Environmental conditions may also affect the signal strength.



Thermapen[®] Blue

with *Bluetooth*[®] LE wireless technology

- securely transmits data to your smart device
- helps your business be HACCP compliant
- colour-coded ID for different applications
- SDK & technical support available

The new Thermapen Blue combines the latest *Bluetooth*[®] wireless technology with the same high accuracy, precision and speed as delivered by the SuperFast 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' additive that reduces bacterial growth and the ergonomic rubber seal minimises the risk of the ingress of water, dust or food. As well as being waterproof to IP66/67, the Thermapen Blue is still 'probably' the fastest reading contact thermometer on the market today. 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 Developer Kit (SDK) is available upon request to allow integrators to write custom Apps to communicate with the Thermapen Blue.

new



Remote Monitoring



order code	description
179-607	Thermapen Blue - grey
179-647	Thermapen Blue - red
179-657	Thermapen Blue - blue
832-002	s/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	Bluetooth LE
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	

Please note: Bluetooth LE thermometers have a range of 50 metres depending on the users smart device make and model. Environmental conditions may also affect the signal strength.

