

# ThermaData™ Logger

recording thermometers

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

The ThermaData logger mk II 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 mk II range offers the choice of either blind data-loggers or data-loggers with a 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 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. For details of the range of loggers, see overleaf.



## ThermaData logger PC 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, storing to disc or exporting as a text (.txt) or Excel (.xls) file to other software packages.

The ThermaData logger 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 logger software will work equally with all ThermaData loggers except the RF version. 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) 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 logger software is supplied with each USB cradle. **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



This logger incorporates an internal NTC thermistor sensor that measures over the range of -40 to 85 °C and can record up to 4000 readings.

order code	description
295-001	model TB

### ThermaData logger - model TD

LCD with an internal sensor



This logger incorporates an internal NTC thermistor sensor that measures over the range of -30 to 85 °C and can record up to 4000 readings.

order code	description
296-001	model TD

### ThermaData logger - model TBF

blind logger with an external fixed sensor



This logger incorporates an external NTC thermistor probe with a one metre PVC/PFA lead that measures over the range of -40 to 125 °C and can record up to 4000 readings.

order code	description
295-101	model TBF

### ThermaData logger - model TDF

LCD with an external fixed sensor



This logger incorporates an external NTC thermistor probe with a one metre PVC/PFA lead that measures over the range of -40 to 125 °C and can record up to 4000 readings.

order code	description
296-101	model TDF

### ThermaData logger - model TB1F

blind with an internal & external fixed sensor



This logger incorporates both an internal and external NTC thermistor probe with a one metre PVC/PFA lead that measures over the range of -40 to 85 °C (*internal*) and -40 to 125 °C (*external*) and can record up to 2 x 2000 readings.

order code	description
295-011	model TB1F

### ThermaData logger - model TD1F

LCD with an internal & external fixed sensor



This logger incorporates both an internal and external NTC thermistor probe with a one metre PVC/PFA lead that measures over the range of -30 to 85 °C (*internal*) and -40 to 125 °C (*external*) and can record up to 2 x 2000 readings.

order code	description
296-011	model TD1F

### ThermaData logger - model TBC

blind with an external sensor with connector



This logger incorporates an external NTC thermistor sensor with a one metre PUR/PVC lead and probe connector that measures over the range of -40 to 125 °C and can record up to 4000 readings.

order code	description
295-501	model TBC

### ThermaData logger - model TDC

LCD with an external sensor with connector



This logger incorporates an external NTC thermistor sensor with a one metre PUR/PVC lead and probe connector that measures over the range of -40 to 125 °C and can record up to 4000 readings.

order code	description
296-501	model TDC



### ThermaData logger - model TB2F

blind with two external fixed sensors



This logger incorporates two external fixed NTC thermistor probes with two one metre PVC/PFA leads that measure over the range of -40 to 125 °C and can record up to 2 x 2000 readings.

order code	description
295-111	model TB2F

### ThermaData logger - model TD2F

LCD with two external fixed sensors



This logger incorporates two external fixed NTC thermistor probes with two one metre PVC/PFA leads that measure over the range of -40 to 125 °C and can record up to 2 x 2000 readings.

order code	description
296-111	model TD2F

### ThermaData logger - model TB2C

blind with two external sensors with connectors



This logger incorporates two external NTC thermistor sensors with two one metre PUR/PVC leads and probe connectors that measure over the range of -40 to 125 °C and can record up to 2 x 2000 readings.

order code	description
295-551	model TB2C

### ThermaData logger - model TD2C

LCD with two external sensors with connectors

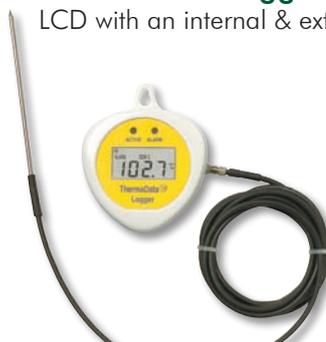


This logger incorporates two external NTC thermistor sensors with two one metre PUR/PVC leads and probe connectors that measure over the range of -40 to 125 °C and can record up to 2 x 2000 readings.

order code	description
296-551	model TD2C

### ThermaData logger - model TD1C

LCD with an internal & external sensor with connector



This logger incorporates both an internal and external NTC thermistor sensor with a one metre PUR/PVC lead and probe connector that measures over the range of -40 to 125 °C and can record up to 2 x 2000 readings.

order code	description
296-051	model TD1C

### USB cradle, software & start magnet



This logger cradle is supplied complete with ThermaData logger PC software and a start magnet.

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

order code	description
293-804	cradle, software & start magnet

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
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

### optional accessories



Loggers are supplied with a white seal as standard, however coloured seals are available in packs of seven colours: black, blue, brown, green, red, white and yellow. This allows for colour-coding in various applications.

An optional protective silicone boot is also available.

order code	description
830-270	protective silicone boot
296-990	coloured seals - pack of 7

# ThermaData™ Loggers

humidity & temperature recording meters

- display toggles between humidity & temperature
- visual display of high & low alarm status
- records up to a maximum of 16000 readings
- 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).

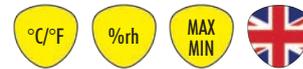
The ThermaData loggers offer the choice of either a blind logger or an LCD display logger, both options include an internal or external humidity and temperature sensor with a one metre lead. Each logger incorporates two LED's, a flashing green LED indicates that the logger is active/logging and a flashing 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 logger PC 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, storing to disk or exporting to Excel (.xls) or as a text (.txt) file to other software packages. **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, software & 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)	±2 %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 is available*