Data-Loggers
for recording temperature or humidity

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. Unlike many loggers on the market today, they have been designed for ease of use and reliability.

what are data-loggers?

Data-loggers are electronic devices that record temperature over a period of time for analysis at a later date. The user chooses what information is required and the data-logger records it. The data-loggers incorporate thermistor or thermocouple sensors that measure the temperature and the data-loggers internal microprocessor chip then stores the data. The stored data can then be transferred to a computer, via a USB cradle, lead or Base Station for further analysis at a time convenient to the user.

applications for data-loggers

There are many uses for data-loggers, 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. Data-loggers offer organisations a method of complying with food industry legislation by offering 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 within the transportation vehicles have been maintained within the specified levels.

For growers of fresh produce, data-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.

Monitoring the environment can help organisations ensure that HVAC systems are used to the optimum, keeping energy use to a minimum and saving money.

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 97 and 98 for more information.

tel: 01903 202151

email: sales@etiltd.com

ThermaData® Logger
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. For details of the range of loggers, see overleaf.

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 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 with each USB cradle. **Please note**: when initially ordering loggers it is necessary to order at least one ThermaData logger cradle.

2 YEAR GUARANTEE °C/°F MAX MIN IP66/IP67 MADE IN BRITAIN

ThermaData logger - model TB
blind with an internal sensor

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

order code	description	£ each
295-001	model TB	50.00

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	£ each
295-101	model TBF	67.00

ThermaData logger - model TB1F
blind with an internal & external fixed sensor

- NTC thermistor sensors
- Ø3.3 x 100 mm probe, 1 metre PVC/PFA lead
- -40 to 85 °C (internal)
- -40 to 125 °C (external)
- records up to 2 x 2000 readings

order code	description	£ each
295-011	model TB1F	72.00

ThermaData logger - model TBC*
blind with an external sensor with connector

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

order code	description	£ each
295-501	model TBC	92.00

ThermaData logger - model TD
LCD with an internal sensor

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

order code	description	£ each
296-001	model TD	60.00

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	£ each
296-101	model TDF	77.00

ThermaData logger - model TD1F
LCD with an internal & external fixed sensor

- NTC thermistor sensors
- Ø3.3 x 100 mm probe, 1 metre PVC/PFA lead
- -30 to 85 °C (internal)
- -40 to 125 °C (external)
- records up to 2 x 2000 readings

order code	description	£ each
296-011	model TD1F	82.00

ThermaData logger - model TDC*
LCD with an external sensor with connector

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

order code	description	£ each
296-501	model TDC	102.00

tel: 01903 202151

email: sales@etiltd.com