



## Standalone Temperature Recorder - Overview

*T-logger is a low-cost standalone temperature logger. Working on its own, the logger can measure temperature and store the value into its on-board memory for future retrieval.*

The logger is initialised by a Window 95/98/Me/XP compatible software via the serial port of a personal computer or a portable computer. Once it is initialised, the logger can be disconnected from the PC and deployed to the designated locations. Two start modes are available: Manual start and Auto start. In the Manual mode, a data logging session starts after the Start button is pressed. In the Auto mode, a data logging session starts immediately after initialisation is completed.



After the logger enters a logging session, the T-logger can be programmed to sleep for a pre-set period of time (ranging from 1 minute to 48 hours) before the 1<sup>st</sup> temperature measurement is taken. After this, the T-logger will automatically measure temperature and store that in the on-board memory at the preset interval.

After the data logging session is completed, the logger is re-connected to a computer and temperature data stored in the logger are downloaded in a PC and saved into a DOS text file. The file can be import into spreadsheet programs such as Lotus 123, Microsoft Excel for further analysis.

- ♣ Cost-effective standalone temperature logging solution
- ♣ 9-pin female D-type RS232 connector for connection
- ♣ For 486, Pentium PCs
- ♣ On-board temperature sensor
- ♣ Initialisation and data download via RS232 port of PCs
- ♣ Stand-alone temperature Logging with a measurement accuracy of 0.5 deg C
- ♣ Allow user to calibrate (Before calibration, the measurement accuracy is within +/- 2 deg C. After calibration, the measurement accuracy is within 0.5 deg C)
- ♣ Selectable scanning cycle interval (number of minutes between two temperature measurements. 1 minute to 255 minutes range)
- ♣ Two Start Mode: Manual and Auto mode. In the manual mode, a data logging session begins by pressing the Start Button. In Auto mode, logging is started immediately after the T-Logger is initialised. Indicate flashes four time to indicate the start of a logging session
- ♣ Selectable delay (Sleep) period before 1<sup>st</sup> temperature measurement (from 1 minutes to 48 hours).
- ♣ Temperature stored as a function of time (up to 2048 data points can be recorded)
- ♣ Temperature stored as histogram (63 bins from -40 to 85 deg C, 2 deg C resolution)
- ♣ Slim size: 70mm by 70mm by 27 mm. Vented casing
- ♣ Use a CR1620 3V lithium button cell for 5 years operation
- ♣ Windows 95/98 driver for initialisation, download and calibration
- ♣ Data file format: DOS delimited text format ready for spreadsheet applications
- ♣ Operation temperature range: -10 to 85 deg C
- ♣ Velcro mounting pads

