Product data sheet

USB TEMPERATURE DATA LOGGER WITH LCD

This standalone data logger measures and stores up to 16,382 temperature readings over a measuring range of -35 to +80°C (-31 to +176°F). The user can easily set up the logging rate and start-time, and download the stored data by plugging the data logger into a PC's USB port and running the purpose designed software under Windows 10, 8, 7, 2000, XP and Vista (32-bit). Data can then be graphed, printed and exported to other applications. The high contrast LCD can show a variety of temperature information. At the touch of a button, the user can cycle between the current, maximum and minimum stored temperatures.

The data logger is supplied complete with a long-life lithium battery which can typically allow logging for 1 year. Correct functioning of the unit is indicated by flashing red, green and orange LEDs.

The data logger is protected against moisture to IP67 standard when the protective cap is fitted.

Product features:

· Measuring range: -35 to +80°C (-31 to +176°F)
· USB interface for set-up and data download
· User-programmable alarm thresholds
· Status indication via red, green and orange LEDs
· High contrast LCD, with 2½ digit temperature display function
· Supplied with replaceable internal lithium battery (ready fitted in product) and Windows control software
· Environmental protection to IP67

	Minimum	Typical	Maximum
Temperature measurement range	-35°C/-31°F	-	+80°C/+176°F
Internal resolution	-	0.5°C/1°F	-
Accuracy (overall error)	-	+/-0.5°C/1°F	+/-1.5°C/3°F
Logging rate	every 10 seconds	-	every 12 hours
Operating temperature range	-35°C/-31°F	-	+80°C/+176°F
½ AA 3.6V Lithium battery life	1pc per year (fitted)		

* At 25°C and 1 m logging rate

Control software

The EasyLog USB control software is supplied free of charge with each data logger. Easy to install and use, the control software runs under Windows 10, 8, 7, 2000, XP and Vista. The software is used to set-up the data logger as well as download, graph and export data to Excel.

The software allows the following parameters to be configured:
· Logger name
· °C or °F
· Logging Rate (10s, 1m, 5m, 30m, 1hr, 6hr, 12hr)
· High and low alarm levels
· Immediate, delayed and push-to-start logging
· Display off, on for 30 seconds after button press, or permanently on.
· Data rollover (allows unlimited logging periods by overwriting the oldest data when the memory is full)

See Brannan.co.uk to download latest version of the control software.

Measurement for life.

Display and status function

The data logger features a high contrast LCD and two LEDs. The LCD shows logged temperature values and can also show information regarding the logging status.

Maximum logged value symbol

Negative symbol

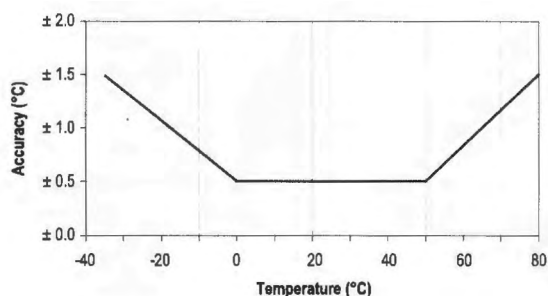**Minimum logged value symbol**

Reading
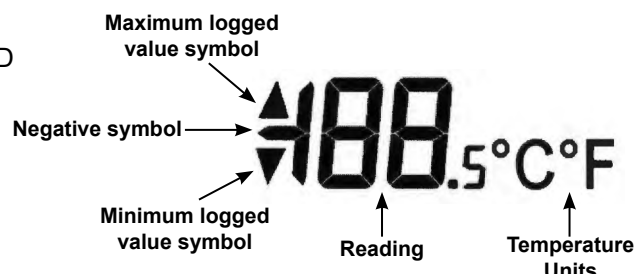
Temperature Units

LCD indication

The LCD shows three different recorded readings, which can be cycled through using the built-in push button. The most recent logged temperature, maximum logged temperature and minimum logged temperature can be displayed. In addition, logging and alarm status is shown using two high intensity LEDs.

Display Logger	Status	Explanation
dS	Delayed Start	This is shown when the logger is set to start at a specific date and time.*
PS	Push to Start	This is shown when the logger is setup for "Push to start" logging.
log	Logging	This is shown when the logger is running in "LCD off" mode, and the button is pressed. The display clears again after three seconds.
- - -	Stopped	If the logger has not been set to log and the button is pressed, three dashes are displayed for three seconds.

* If the logger is set to "LCD off" or "LCD on for 30 seconds" mode, then this will only be shown after the button is pressed. Otherwise the display will remain blank.

LED flashing modes

This data logger features 2 LEDs that indicate the logging, battery and alarm status:
· The first LED flashes red (R) to indicate that the data logger is in alarm condition. It will flash when the logged temperature has exceeded a Low or High alarm level.
· The second LED flashes green (G) to indicate that the data logger is not in an alarm condition.

Hold is enable by default, which forces the logger to continue flashing the red LED after an alarm, even when the temperature has returned to normal. This feature ensures that the user is notified that an alarm level has been exceeded, without the need to download the data from the logger.
Hold can be turned off via the control software. The red LED will then only flash whilst the logger is in an alarm condition. When the temperature returns to normal, the green LED will flash.
Additional LED modes are explained below:

Red LED Green LED	⭕	**Green single flash (10 seconds)** The data logger is currently logging. No alarm.
	⭕	**Green single flash (20 seconds)** The data logger is currently logging. No alarm. However, the battery is low and should be replaced before logging important data.
	⭕	**Green single flash (30 seconds)** The data logger not is currently logging but is primed to start at a later date and time (delayed start).
	⭕	**Green double flash (20 seconds)** The data logger is full and has stopped logging. No alarm.
	⭕	**Red single flash (10 seconds)** The data logger is currently logging. Low alarm.
	⭕	**Red single flash (20 seconds)** The data logger is currently logging. Low alarm. However, the battery is low and should be replaced before logging important data.
	⭕	**Red double flash (10 seconds)** The data logger is currently logging. High alarm.
	⭕	**Red double flash (20 seconds)** The data logger is currently logging. High alarm. However, the battery is low and should be replaced before logging important data.
	⭕ ⭕	**Red /Green single flash (20 seconds)** The data logger is full and has stopped logging. Alarm (high, low or both)
	⭕	**No LED flash** The data logger has stopped, the battery is empty or there is no battery fitted.

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Measurement for life.

Battery replacement

We recommend that you replace the battery every 12 months, or prior to logging critical data. This data logger does not lose its stored readings when the battery is discharged or when the battery is replaced, however, the data logging process will be stopped and cannot be re-started until the battery has been replaced and the logged data has been downloaded to a PC. Only use 3.6V ½AA lithium battery. Check with your supplier that the battery you are ordering is 'press fit' and is not fitted with solder tags. Before replacing battery, remove the data logger from your PC.
Note: Leaving the data logger plugged into the USB port for longer than necessary will cause some of the battery capacity to be lost.

WARNING

Handle lithium batteries carefully, observe warnings on battery casing. Dispose of in accordance with local regulations.

Dimensions & weights:

Product dimensions: Net: 25.3mm x 119.5mm
                          Gross: 100mm x 140mm x 40mm
Product weight: Net: 51g (incl. battery)
                          Display box & instructions: 33g
                          Gross: 99g (incl 15g plastic tray)
CE/ROHS/WEEE: Compliant
Hazard information (SDS): See brannan.co.uk for information

Description	Barcode	Product no
USB temperature data logger with LCD	5 011405 387520	38/752/0

CE UKCA

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