TEMPERATURE AND HUMIDITY LOGGER - 1

This standalone data logger measures and stores up to 16,382 relative humidity and temperature readings over 0 to 100%RH and -35 to +80°C (-31 to +176°F) measurement ranges.

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). Relative humidity, temperature and dew point (the temperature at which water vapour present in the air begins to condense) data can then be graphed, printed and exported to other applications.

The data logger is supplied fitted with a long-life lithium battery which can typically allow logging for 1 year. Correct functioning of the unit is indicated by flashing red and green LEDs. The data logger is protected against ingress from water and dust to IP67 standard when the protective cap and seal is fitted.

Product features:

· Humidity measuring range: 0 to 100%
· Temperature measuring range: -35 to +80°C (-31 to +176°F)
· Dew point indication via Windows control software
· USB interface for set-up and data download
· User-programmable alarm thresholds for % relative humidity and temperature
· Status indication via red and green LEDs
· Supplied with replaceable internal lithium battery (fitted into unit) and Windows control software
· Environmental protection to IP67

		Minimum	Typical	Maximum
Relative Humidity	Measurement range	0%RH	-	100%RH
	Repeatability	-	+/-0.1%RH	-
	Accuracy (overall error)	-	+/-3%RH*	+/-3%RH
	Internal resolution	-	0.5%RH	-
	Long term stability	-	0.5%RH/year	-
Temperature	Measurement range	-35°C/-31°F	-	+80°C/+176°F
	Repeatability	-	+/-0.1°C/0.2°F	-
	Accuracy (overall error)	-	+/-0.5°C/1°F	-
	Internal resolution	-	0.5°C/1°F	-
Dew point	Accuracy (overall error)	-	+/-1.1°C/2°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)***		

 * This specifies the overall error in logged readings, for relative humidity measurements between 20 and 80%RH.

 ** This specifies the overall error in the calculated dew point, for relative humidity measurements between 40 and 100%RH at 25°C.

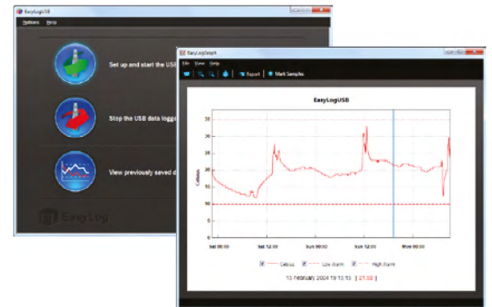 *** Depending on sample rate, ambient temperature and use of alarm LEDs.

Product data sheet

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 (up to 16 characters)
· °C or °F
· Logging Rate (10s, 1m, 5m, 30m, 1hr, 6hr, 12hr)
· High and low alarm levels
· Start date and time

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

LED flashing modes

This data logger features two bi-colour LEDs; one LED represents temperature measurement, the other represents RH. Each is clearly marked on the logger. To save power, the status indication alternates between the two channels every 10 seconds. First you will see the status of the temperature lagging and 10 seconds later you will see the status of the RH logging and so on.

RH%	°C/°F	10 seconds later	RH%	°C/°F
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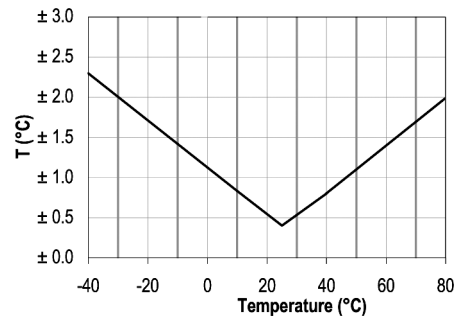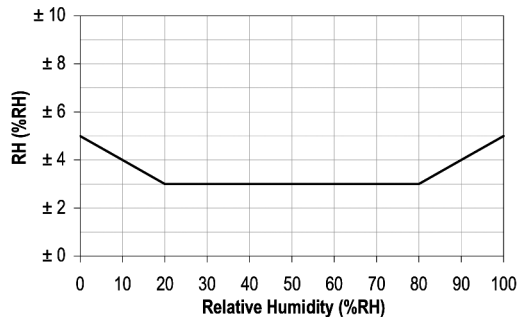|		
☀	**Green double flash**	The data logger is not currently logging, but is primed to start at a later date and time (delayed start).
☀	**Green single flash**	The data logger is currently logging. No alarm on this channel.
☀	**Red single flash**	The data logger is currently logging. Low alarm on this channel.
☀	**Red double flash**	The data logger is currently logging. High alarm on this channel.
☀	**Green triple flash**	The data logger is full and has stopped logging. No alarm on this channel.
☀	**Red triple flash**	The data logger is full and has stopped logging. Alarm (high, low or both).
O	**No LED flash**	The data logger has stopped, the battery is empty or there is no battery.
☀ ☀	**Dual red flash (every 60 seconds)**	The data logger battery is running low as its voltage has dropped below 2.9V.

RH%   °C (°F)

Measurement accuracy

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: 26.8mm x 98mm
	Gross: 100mm x 140mm x 40mm
Product weight:	Net: 39g (incl. battery)
	Display box & instructions: 36g
	Gross: 90g (incl 14g plastic tray)
CE/ROHS/WEEE:	Compliant
Hazard information (SDS):	See brannan.co.uk for information

Description	Barcode	Product no
Temperature & humidity logger - 1	5 011405 387554	38/755/0

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