



Product Data Sheet

Higher Accuracy Humidity, Temperature and Dew Point USB Data Logger



This standalone data logger measures and stores up to 16,382 relative humidity and 16,382 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 logger and view downloaded 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. This data logger can also be used in conjunction with our Handheld Programmer and Data Collector (available separately - 38/760/0) which allows the user to configure their unit, download data and view logging results on-the-spot rather than removing the logger from the environment being measured to take to the PC.



Product Features

- Higher accuracy sensor (when compared to 38/755/0 model)
- Humidity measuring range: 0 to 100%RH
- 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 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)	-	+/-2%RH*	+/-4%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)	-	+/-0.3°C/0.6°F	+/-1.5°C/3°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 10 and 90%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 and ambient temperature.

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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 alarms
- Immediate and delayed logging
- Data rollover (allows unlimited logging periods by overwriting the oldest data when the memory is full)

See Brannan website 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, ie the temperature channel flashes and 10 seconds later the relative humidity channel flashes, repeating for the duration of logging activity.

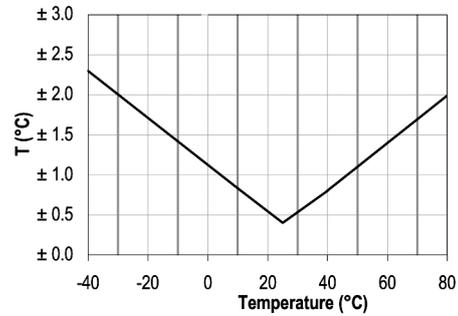
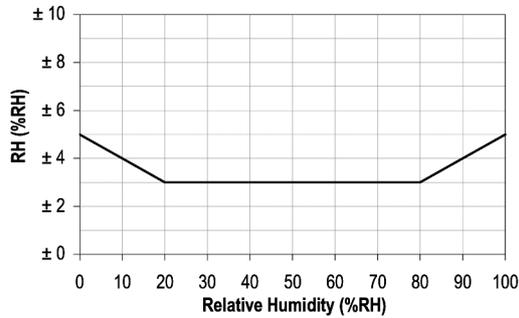


		Green double flash The data logger is not currently logging, but is primed to start at a later date and time (delayed start).
		Green single flash The data logger is currently logging. No alarm on this channel.
		Red single flash The data logger is currently logging. Low alarm on this channel.
		Red 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).
		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.



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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.

Weights & Dimensions

Product Weight:

Packaged - 90g

Unpackaged - 39g (including battery)

Product Dimensions:

Packaged - 100mm x 140mm x 40mm

Unpackaged - 26.8mm x 103mm

Packaging Component Weights:

Box & Instructions (paper) - 36g

Insert Tray (plastic) - 15g

CE:

Approved

ROHS/WEEE:

Compliant

Hazard Information (SDS):

See www.brannan.co.uk for information

Description	Barcode	Product No
USB Data Logger	5 011405 387561	38/756/0

Please note: all information on this data sheet is correct at the time of printing, but our policy is one of continuous product development. We reserve the right to change specification without notice.

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