EL-USB-RT

Real-time USB Temperature & Humidity Monitor

When plugged into the USB port of a PC installed with the purpose designed software under Windows 2000, XP and Vista (32-bit only), EL-USB-RT measures temperature and relative humidity from -20 to +70°C (-4 to +158°F) and 0 to 100%RH. The PC displays the temperature, humidity and dew point (the temperature at which water vapor present in the air begins to condense) in real-time and saves it to a file which can store up to 7 day's worth of data. This data file is overwritten at the beginning of each new logging session. The software provides the option for the user to save the data file permanently to the hard-drive. Temperature, relative humidity and dew point can be graphed, printed and exported to other applications.

FEATURES

- -20 to +70°C (-4 to +158°F) Measurement Range
- 0 to 100%RH Measurement Range
- Dew point indication via Windows Control Software
- USB Interface
- User-Programmable Alarm Thresholds for T & RH%

WINDOWS CONTROL SOFTWARE

Easy to install and use, the control software runs under Windows 2000, XP (Home and Professional Editions) and Vista (32-bit only). It provides an environment whereby the user can view the current temperature and humidity and graph either the current data file or previously saved files. Users can set up high and low alarms within the software which can send e-mails, text alerts or audible alarms via the PC's internal speaker. The software can also show the current temperature and humidity in the notification area within the Window's tool-bar. Right-clicking on the EL-USB-RT icon in the notification area enables the user to access the full functionality of the software.

SET-UPS

- °C, °F
- High and Low Alarms for Temperature and Humidity
- E-mail Alert / Data set settings
- Text Message Alert settings
- Mute PC's Alarm Beep
- Show Readings / Icon in Notification Bar

ORDERING INFORMATION

	Stock Number
Standard Product	**EL-USB-RT**
(Data Capture Device, Software on CD)	

SPECIFICATIONS

Specification		Min.	Typ.	Max.	Unit
Temperature	Measurement range *	-20 (-4)		+70 (+158)	°C (°F)
	Repeatability		±0.3 (±0.6)		°C (°F)
	Accuracy (overall error)		±1.5 (±3)**		°C (°F)
	Response time		20	30	sec
Relative Humidity	Measurement range	0		100	%RH
	Repeatability (short term)		±0.5		%RH
	Accuracy (overall error) (20-80%RH)		±4.5		%RH
	Response time		5		sec
	Long term stability		1		%RH/Yr
Dew Point	Accuracy (overall error) (25°C, 40-100%RH)		±2.5 (±5)		°C (°F)
Logging rate			1 sec		
Operating temperature range		-20 (-4)		+70 (+158)	°C (°F)

* Range to -40 to +90°C (-40 to +194°F) for occasional use
** Stated accuracy correct following 15 minutes temperature stabilisation in environment

Specifications liable to change without prior warning   EL-USB-RT   Issue 5   Feb 2009   B.S.

DIMENSIONS All dimensions in mm