

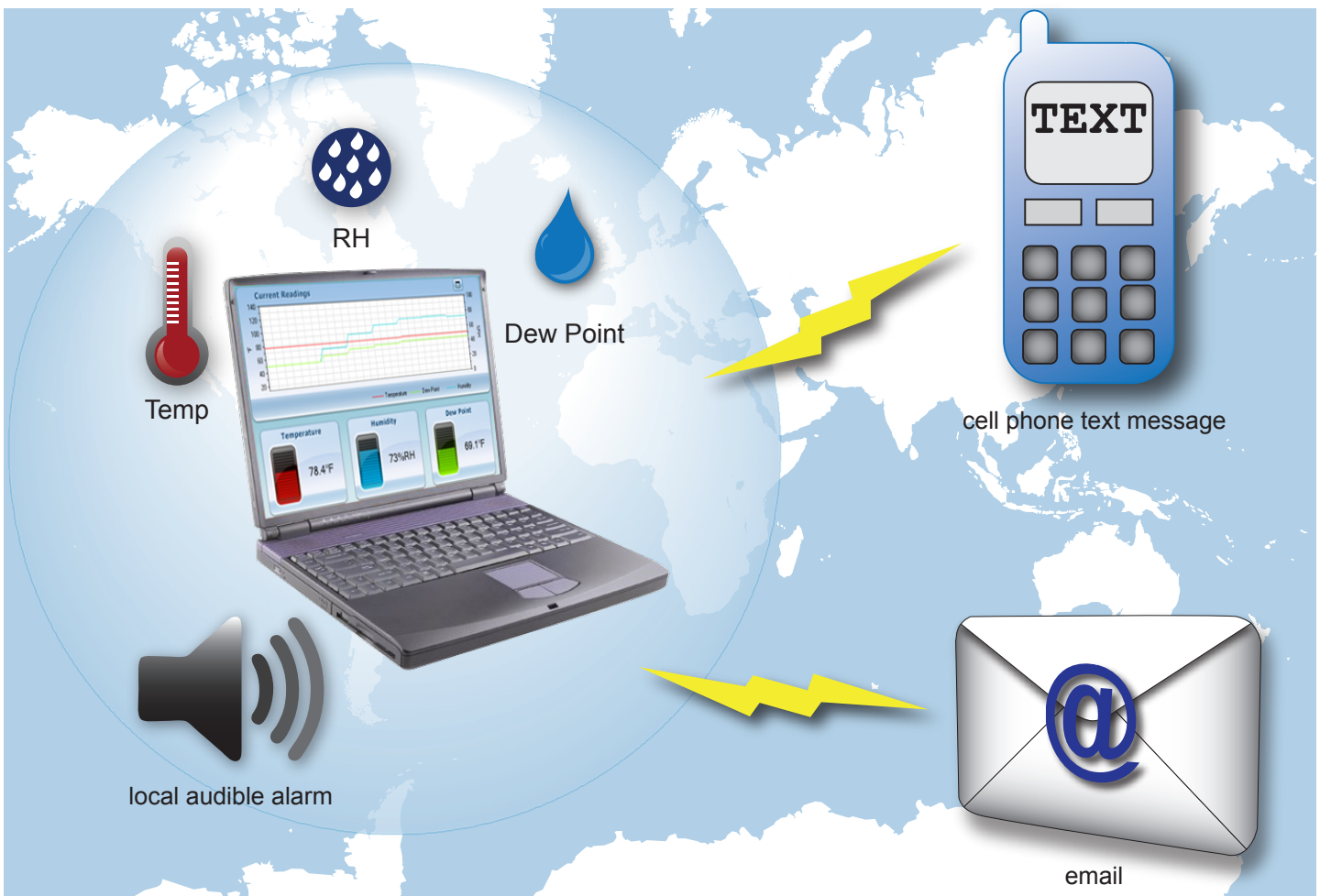
Features

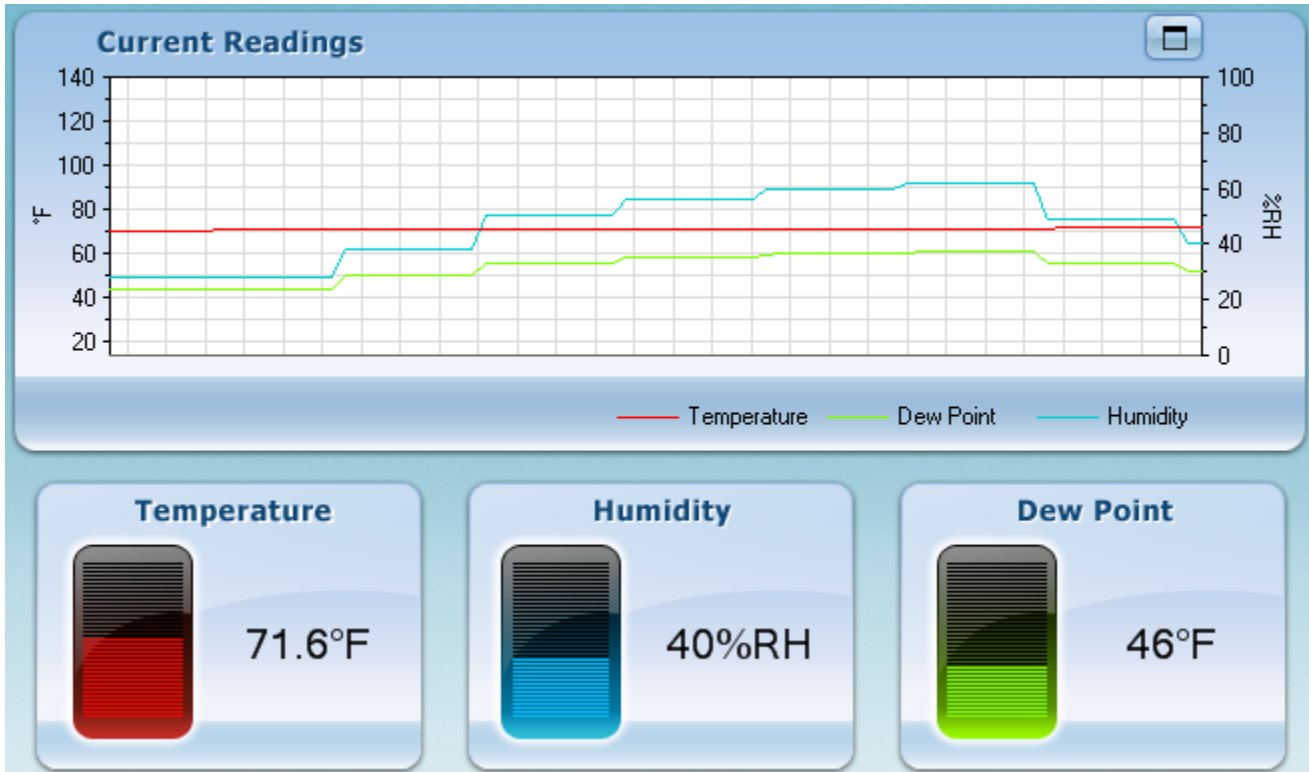
- Measures temperature, humidity, dew point
- -20 to 70°C (-4 to 158°F), 0 to 100% RH measurement range
- Three alarm actions in any combination:
 - Text message to any cell phone
 - Email to any account
 - Local audible alarm
- Low-cost, compact, USB-compatible



The EL-USB-RT is a Temperature/Humidity data logger that plugs into the USB port of a PC. It provides continuous monitoring of the local environment of the PC, including temperature (-20°C to +70°C), relative humidity (0 to 100% RH) and dew point data. The included EL-USB-RT software provides a clean, straight-forward display and intuitive controls. Data is logged to your hard drive at a rate of one sample per second. Each data

file can contain up to 7 days of continuous data. Once recorded, data can be plotted using the EL-USB-RT software or exported to Microsoft Excel. The alarm feature incorporated into the EL-USB-RT software allows you to trigger an audible alarm, send a text message to a cell phone and/or an email notification, anywhere in the world, when temperature, humidity or dew point exceed specified thresholds.





The EL-USB-RT software clearly displays real-time temperature, humidity and dew point in real time on the host PC's display.

The screenshot shows the configuration window for the EL-USB-RT software. At the top, it allows selecting the temperature unit: **Display Temperature in:** °C °F.

Alarm Levels

Parameter	High Alarm	Low Alarm	Threshold Alarm
Temperature	<input type="checkbox"/> High: 32.0 °F	<input type="checkbox"/> Low: 32.0 °F	
Humidity	<input checked="" type="checkbox"/> High: 60 %RH	<input type="checkbox"/> Low: 0 %RH	
Dew Point	<input type="checkbox"/> High: 32.0 °F	<input type="checkbox"/> Low: 32.0 °F	<input type="checkbox"/> Threshold: 0.0 °F

(Alarm is triggered when temperature is within entered threshold of dew point)

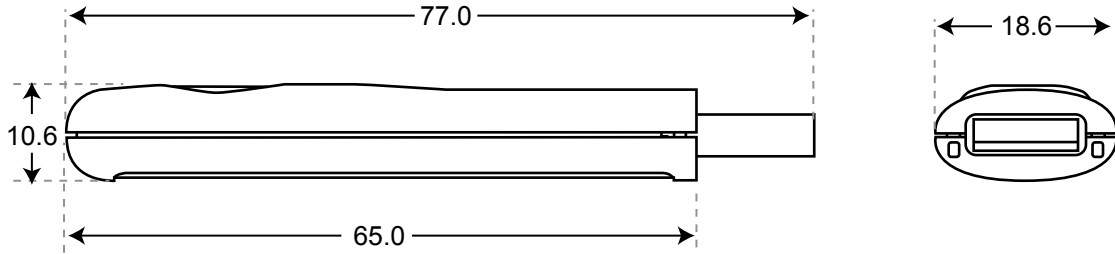
Additional settings:

- Mute PC beep on alarm
- Enable email settings
- No backup on session end
- Enable Daily Activity Log

Email configuration

Straight forward controls allow for easy configuration of alarm levels and resulting alerts.

EL-USB-RT Dimensions (mm)



EL-USB-RT Specifications

	Specification	Minimum	Typical	Maximum	Unit
Relative Humidity	Measurement Range	0		100	%RH
	Humidity Repeatability (short term)		±0.5		%RH
	Accuracy (overall error, 20-80% RH)		±4.5	±6.0	%RH
	Response Time		5		sec
	Long-term Stability		1		%RH/Yr
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
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.

EL-USB-RT Ordering Information

Description	Order Number
Temperature and Humidity Data Logger Includes EL-USB-RT data logger, measurement leads, and software on CD.	EL-USB-RT

EL-USB Data Logger Series Overview

EasyLog Products for Any Application

From temperature and humidity to carbon monoxide trending, there's an EasyLog data logger that's right for you. Click on "Go" to go to the product's web page.

Measurement		Model EL-USB (click on page number to jump to page)																	
Function	Range	-LITE	-1	-1-LCD	-1-RCG	-1-PRO	-2	-2+	-2-LCD	-2-LCD+	-3	-4	-5	-ACT	-CO	-TC	-TC-LCD	-TP-LCD	-TP-LCD+
Temperature	-10 to +50°C (+14 to +122°F)	Go																	
Temperature	-35 to +80°C (-31 to +176°F)		Go	Go															
Temperature	-20 to +60°C (-4 to +140°F)				Go														
High Temperature	-40 to +125°C (-40 to +257°F)					Go												Go	Go
Humidity, temperature, dew point	0 to 100% RH -35 to +80°C (-31 to +176°F)						Go	Go	Go	Go									
Voltage	0 to 30 VDC										Go								
Process current	4 to 20 mA											Go							
Event, State, Count	3-28 VDC												Go						
Current	-1000 to 1000 mV													Go					
Carbon monoxide	0 to 1000 ppm														Go				
Thermocouple	-130 to +900°C -200 to +1300°C -200 to +350°C															Go	Go		

Lascar Data Logger Product Lines

EL-USB Data Loggers



Lascar EasyLog model EL-USB series products are a line of low cost, compact, battery-operated data loggers with built-in memory and a USB interface for easy setup and data download. Each product in the line offers a specific measurement function (including temperature, voltage, process current, and more).

EL-GFX Data Loggers



The EL-GFX line of data loggers is the latest release from Lascar Electronics with similar functionality of the EL-USB series with an added graphic display for data.

EL-WiFi Data Loggers



Lascar's EL-Wifi Data Logger series products are low cost, compact, battery-operated data loggers with wireless connectivity to any PC over a WiFi router. Each product in the line features a large, easy-to-read display of current measurements, and is purchased for specific measurement functions.



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Data Acquisition Product Links

(click on text to jump to page)

[Data Acquisition](#) | [Data Logger](#)