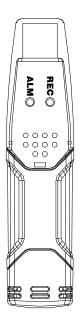
# USER'S GUIDE 94150 Humidity and Temperature USB Datalogger



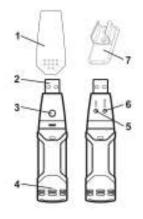


#### **FEATURES**

- Memory for 32,000 readings (16000 temperature and 16,000 humidity readings)
- Dew point indication
- Status Indication
- USB Interface
- User-Selectable Alarm
- Analysis software
- Multi-mode to start logging
- Long battery life
- Selectable measuring cycle: 2s, 5s, 10s, 30s, 1m, 5m, 10m, 30m, 1hr, 2hr, 3hr, 6hr, 12hr, 24hr

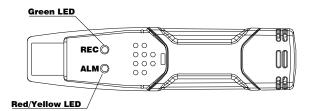
### DISCRIPTION

- 1. Protective cover
- 2. USB connector to PC port
- 3. Start button
- 4. RH and Temperature sensors
- 5. Alarm LED(red/yellow)
- 6. Record LED(green)
- 7. Mounting clip



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### **LED STATUS GUIDE**



## LED STATUS GUIDE

LEDs		Indication	Action
REC	ALM	Both LED lights OFF Logging not active Or Low Battery	Start logging Replace battery and download the data
REC		One green flash every 10 sec. * Logging, no alarm condition** Green double flash every 10 sec. * Delayed start	To start, hold the start button until Green and Yellow LED flash

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REC ALM	Red single flash every 10 sec. * -Logging, low alarm for RH*** Red double flash every 10 sec. * -Logging, high alarm for RH***	logging, it will stop automatically. No data will be lost. Replace battery and download data
	Red single flash every 60 sec. - Low Battery****	
REC ALM	Yellow single flash every 10 sec. * -Logging, low alarm for TEMP***	
	Yellow double flash every 10 sec. * -Logging, high alarm for TEMP***	Download data
	Yellow single flash every 60 sec. - Logger memory full	

- \* To save power, the logger's LED flashing-cycle can be changed to 20s or 30s via the supplied software.
- \*\* To save power, alarm LEDs for temperature and humidity can be disabled via the supplied software.

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- \*\*\*When both temperature and relative humidity readings exceed alarm level synchronously, LED status indication alternate every cycle. For example: If there is only one alarm, the REC LED blinks for one cycle and alarm LED will blink for next cycle. If there are two alarms, REC LED will not blink. First alarm will blink for first cycle and the next alarm will blink for next cycle.
- \*\*\*\*When the battery is low, all operations will be disabled automatically. NOTE: Logging automatically stops when the battery weakens (logged data will be retained). The supplied software is required to restart logging and to download logged data.
- \*\*\*\*\* To use the delay function. Run the datalogger Graph software, click on the computer icon on the menu bar (2nd from left) or select LOGGER SET from the LINK pull-down menu. The Setup window will appear, and you will see there are two options: Manual and Instant. If you select the Manual option, after you click the Setup button, the logger won't start logging immediately until you press the yellow button in logger's housing.

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SPECIFICATIONS			
Relative	Overall Range	0 to 100%	
Humidity	Accuracy (0 to 20 and 80 to 100%)	±5.0%	
	Accuracy (20 to 40 and 60 to 80%)	±3.5%	
	Accuracy(40 to 60%)	$\pm 3.0\%$	
Temperature	Overall Range	-40 to 70 °C (-40 to 158°F)	
	Accuracy(-40 to -10 and +40 to $+70^{\circ}$ C)	±2℃	
	Accuracy(-10 to +40 °C)	±1℃	
	Accuracy (-40 to +14 and 104 to 158°F)	±3.6°F	
	Accuracy(+14 to +104 °F)	±1.8°F	
Dew point Temperature	Overall Range	-40 to 70 °C (-40 to 158°F)	
	Accuracy(25°C, 40 to 100%RH)	± 2.0 ℃ (±4.0°F)	
Logging rate	Selectable sampling interval: From 2 seconds up to 24 hours		

### **SPECIFICATIONS**

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Operating	-35 to 80°C (-31to 176°F)	
temperature		
Battery type	3.6V lithium(1/2AA)(SAFT	
	LS14250, Tadiran TL-5101 or	
	equivalent)	
Battery life	1 year(typ.) depending on logging	
	rate, ambient temperature & use of	
	Alarm LEDs	
Dimensions/We	101x25x23mm (4x1x.9")/ 172g	
ight	(6oz)	

#### **BATTERY REPLACEMENT**

Only use 3.6V lithium batteries. Before replacing the battery, remove the model from the PC. Follow diagrammatic and explaination steps 1 throught 4 below:

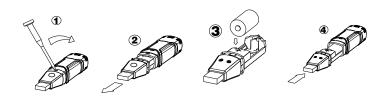
- 1. With a pointed object(d.g. a samll screwdriver or similar), open the casing. Lever the casing off in the direction of the arrow.
- 2. Pull the data logger from the casing.
- 3. Replace/Insert the battery into the battery compartment observing the right polarity. The two displays briefly light up for control purposes(alternationg, green, yellow, green).

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4. Slide the data logger back into the casing until it snaps into place. Now the data logger is ready for programing.

#### NOTE:

Leaving the model 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.

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### **Sensor Reconditioning**

Over time, the internal sensor may be compromised as a result of pollutants, chemical vapors, and other environmental conditions which can lead to inaccurate readings. To recondition the internal sensor, please follow the procedure below:

Bake the Logger at 80°C (176°F) at<5%RH for 36 hours followed by

20-30°C (70-90°F) at>74%RH for 48 hour ( for re-hydration)

If permanent damage to the internal sensor is suspected, replace the Logger immediately to insure accurate readings.

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