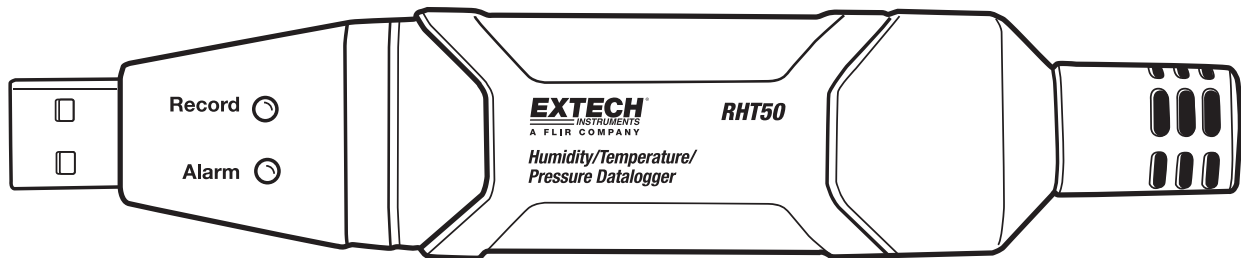


User's Guide



Humidity + Temperature + Pressure Datalogger

Model RHT50



Introduction

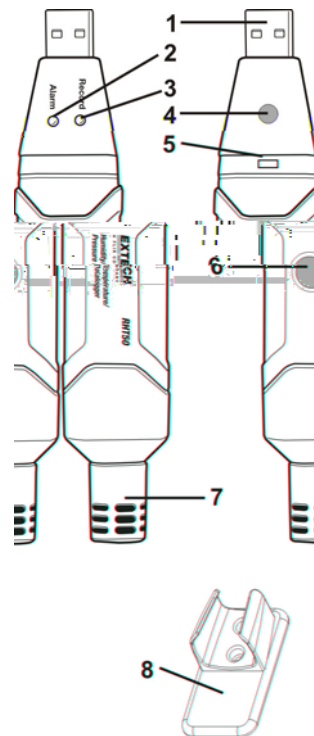
Congratulations on your purchase of the Relative Humidity / Temperature / Pressure Datalogger; this datalogger measures and stores up to 10,000 readings. The user can easily configure the logging rate, high/low alarm and start-mode. It also downloads the stored data by plugging the module into a PC USB port and running the supplied PC software. Data can then be graphed, printed and exported to other applications. The data logger is supplied with a 3.6V 1/2 'AA' lithium battery. This meter is shipped fully tested and calibrated and, with proper use, will provide years of reliable service.

Features

- Datalogger Memory stores 10,000 temperature, humidity and pressure readings
- Selectable data sampling rate: 1 second to 18 hours
- Manual and automatic datalogger start
- Status Indication via Red/Yellow LED and Green LED
- USB Interface for Set-up and Data Download
- User-Programmable Alarm Thresholds
- Long battery life

Description

1. USB connector
2. Alarm LED (red/yellow)
3. Record LED (green)
4. Start button
5. Battery cover latch
6. Tripod mount
7. RH, Temperature, Pressure sensors
8. Mounting bracket



Operation

INSTALLING THE GRAPHING SOFTWARE

Install the supplied Windows™ PC Datalogger Software by placing the supplied program disk in the PC's CD-ROM drive. If the installation program does not automatically open and provide on-screen prompts, open and browse the CD-ROM drive, then find and double-click on the SETUP.EXE file included on the program disk. Follow the on-screen prompts to complete the installation.

Before running the graphing software, please connect the RHT50 to the PC and install the USB Driver software as described in the next section.

INSTALLING THE USB DRIVER









Plug the RHT50 into an available USB port on the PC. If this is the first time that the RHT50 has been connected to the particular port on the PC, the following screen will appear:



Make sure the program disk is still in the PC CD-ROM drive. Select the 'recommended' installation and follow the on-screen prompts to complete the driver installation. If this is a repeat connection of the RHT50 to the USB port, the driver installation process will be automatically skipped.

Refer to the HELP utility in the software program for detailed instructions on using the software to download and process recorded data. The LED status guide provided below is offered for easy reference.

LED STATUS GUIDE

LEDs		Meaning	
Record	Alarm		
		No LED No LED No LED	Logging not started Logging stopped * Battery discharged **
 Green		Green flash (single): Green flashes (five) Green flashes (six)	Logging indication ***** Reset Start Logging
	 Red	Red double flash every 30 sec. Red single flash Red flashes (six)	Low battery *** Logging, alarm event ***** Stop logging *
	 Yellow	Yellow flash every 20 seconds	Memory full *

- * Connect the datalogger to the PC and download data
- ** Replace the battery, data will not be lost
- *** Logging will stop, data will remain in memory
- **** Occurs if an alarm is exceeded
- ***** Flash cycle time is set from the software

Specifications

	Range	Accuracy
Relative Humidity	0 to 20 and 80 to 100%	±5.0%
	20 to 80%	±3.5%
Temperature	-40 to 32°F and 104°F to 158°F -40 to 0°C and +40 to +70°C	±3.6°F/±2°C
	32°F to 104°F/0°C to +40°C	±1.8°F/±1°C
Pressure	950 to 1050hPa	Accuracy: ±0.25%FSO @ (25°C) Repeatability: ±0.25%Max+±0.3%FSO) Linearity/Hysteresis: ±0.24%FSO Temperature coefficient: ±0.1%FSO
	Notes: FSO: Full Scale Output 1psi = 68.947 mbar = 0.068947 bar 1 psi = 6894.7 Pa = 68.947 hPa = 6.8947 kPa	
Resolution	0.1%RH, 0.1°C/F, 0.1hPa	
Data storage	10,000 measurements	
Logging rate	Selectable sampling interval: From 1 second up to 18 hours	
Operating temperature	-31 to 176°F (-35 to 80°C)	
Battery type	3.6V (1/2 AA) (SAFT LS14250, Tadiran TL-5101 or equivalent)	
Battery life	1 year (typ.) depending on logging rate, ambient temperature, & use of Alarm LEDs	
Dimensions/Weight	4 x 1 x .9" (101 x 25 x 23mm) / 6oz (172g)	

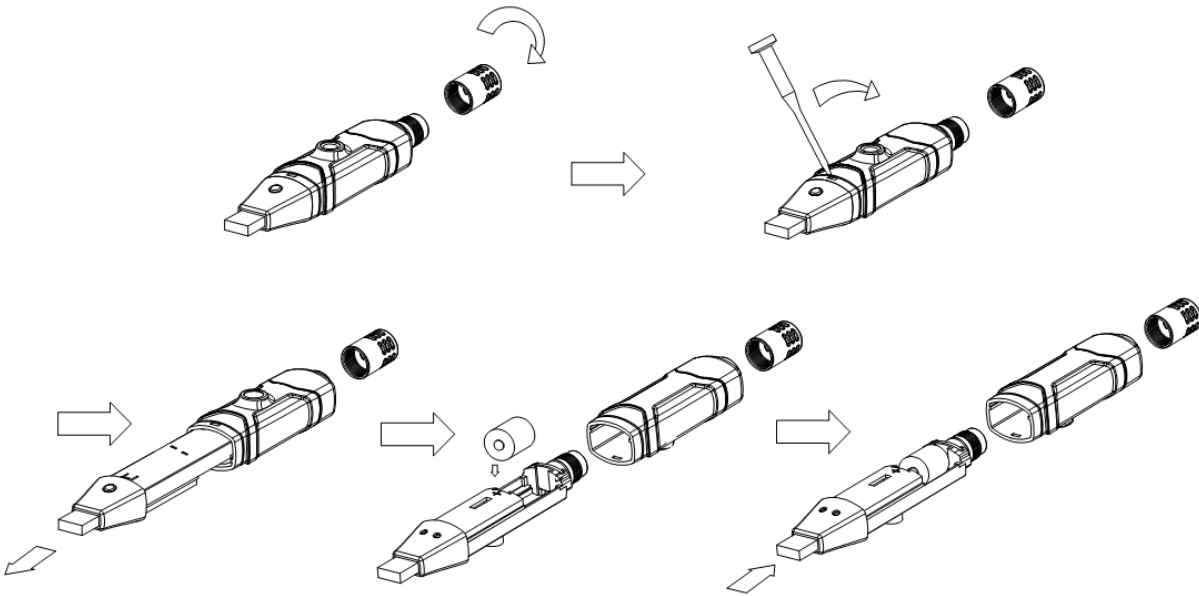
Battery Replacement

It is highly recommended that the battery be replaced every 12 months, or prior to logging critical data.

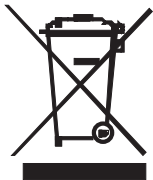
The RHT50 does not lose its stored readings when the battery weakens or when the battery is replaced; the data logging process will however be stopped and cannot be re-started until the battery has been replaced and the logged data has been downloaded to PC.

Use only a 3.6V ½ 'AA' lithium battery. Before replacing the battery, remove the datalogger from the PC. Follow the steps in the diagram below for opening the housing and replacing the battery.

NOTE: Leaving the RHT50 plugged into the PC USB port 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.



You, as the end user, are legally bound (**EU Battery ordinance**) to return all used batteries, **disposal in the household garbage is prohibited!** You can hand over your used batteries / accumulators at collection points in your community or wherever batteries / accumulators are sold!

Disposal: Follow the valid legal stipulations in respect of the disposal of the device at the end of its lifecycle

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Technical Support: support@extech.com -- Calibration and Repairs: repair@extech.com

Product specifications subject to change without notice

For the latest version of User Guides, Software updates, and other information:

www.extech.com (781) 890-7440

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