
TruTrack Data Logger

Single Temperature / Humidity Logger Model HT-HR mark 3

Dual Channel High
Resolution (10 bit) Humidity
& Temperature Data Logger.



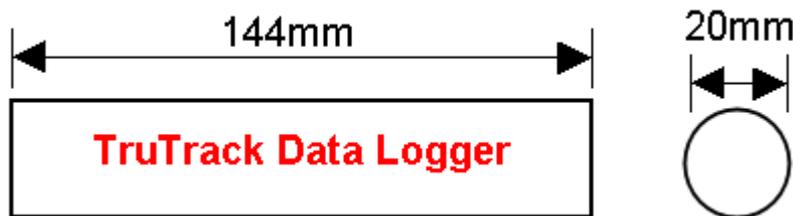
The HT-HR is a small Dual Channel High Resolution (10 bit) Humidity and Temperature data logger housed in a rugged 304 stainless steel case. The humidity and temperature sensors are housed in a 60 micron Stainless Steel filter at the top of the logger. The HT-HR loggers uses a Sensirion SHT11 humidity sensor giving $\pm 3.0\%$ RH accuracy from 20%RH to 80%RH. The logger contains an integral internal temperature probe which is logged separately to humidity. Logging can be configured to: start on time, immediate start, stop when full, loop around (overwrite oldest data).

Features:

- Temperature & Humidity can be set to any combination of Point, Average, Maximum & Minimum readings.
- Temperature can be logged in high resolution or low resolution mode.
- Low resolution mode is used to increase the number of samples.
- It is recommended that Humidity is always logged in High resolution mode.
- The data from any logger that records Temperature and Relative Humidity can now be processed, by the OmniLog software, to add Absolute Humidity and/or Dew Point readings to the data.
- The logger can be set to log Temperature only, Humidity only or both Temperature and Humidity.
- The battery voltage of the logger can be logged if required.
- The logger can be run in either "Stop when memory is Full", "Loop Around" mode or set to stop at a future time.
- The logger can be started "Now" or started at a given time in the future.
- The data from any logger that records Temperature can now be processed, by the OmniLog software, to give daily, weekly and monthly accumulated Grow Degree Day reports for a wide range of horticultural crops.

Ordering Information: HT-HR Humidity / Temperature data logger

HT-HR Dimensions:



Putting into service:

1. From the SWDL-DLC OmniLog software and Download cable kit, **first install the OmniLog software**, then plug the Download cable into a spare USB or serial port on your PC (depending on which type you have). The OmniLog has an excellent "Help". This will need to be read to enable successful operation of the OmniLog Data Management Program and gain familiarisation of the many advanced features available.
2. Connect the TruTrack Logger. Under healthy circumstances, a "Logger Control" screen will load. If the "Logger Control" screen does not load, click on the button labelled "Connect to a Logger for the first time". The OmniLog will run a test on the serial ports and advise if the port the logger is connected to is not available, in which case, plug the logger into an available port. (Refer to "Help" for further assistance.)
3. On the "Logger Control" screen, click on "Channel and Probe Setup" button, and check the Battery Condition, plus other configurations if connecting to the pH-HR or mV-HR loggers.

Now click on the "Start Logger" tab for the final configurations, before putting the logger into service.

Specifications:

Humidity:	Sensor Type	Sensirion SHT11, Digital humidity sensor Long-term stability, Fully calibrated by Sensirion Response time 4 seconds, Range 0%~100%		
	Accuracy	±3.0%RH from 20% to 80% ±5%RH from 0% to 20% and 80% to 100%		
	Resolution	0.5%RH		
	Filter	60 micron Stainless Steel		
Temperature:	Sensor Type	Thermister		
	Linear accuracy over range	±0.3°C (0°C to 70°C)		
	Repeatability	±0.1°C		
	Long term stability	±0.1°C		
Logger:	Working Temperature	-30°C to +70°C		
	Storage Temperature	-30°C to +70°C		
	Sampling Rate	1 second minimum, 10 hours maximum; in 1 second intervals		
	Storage capacity	64,000 8 bit samples; 32,000 12 bit samples		
	Alarms	Alarms	Two independent Alarms Triggered on any combination of six user configurable Alarm Conditions One alarm can be configured to dial a PocketPager Alarms can be visually checked using the OmniLog Software	
		Start modes	Start immediately Start on date/time	
		Stop modes	Stop when memory is full Stop on date/time	
	Logging modes	Logging modes	Loop around (continues logging) Each channel can be set to log any combination of: - Point readings - Average reading - Maximum reading - Minimum reading	
		Battery	Battery	One to Five year life depending on usage One ½AA 3.6V lithium cell; Factory Replaceable The data is retained in the case of battery failure Battery Status Monitor in OmniLog software
			Download time	35 seconds for Full Logger
	Case material	304 Stainless tube		
	Screw on end cap	Plated brass		
	Weight	110g		
	Size	20mm diameter X 144mm long		

A DLC3USB [USB] or DLC3 [RS232] download cable is required to connect the HT-HR to a computer.

HT-HR Maintenance:

Maintenance needed for the HT-HR depends on the environment. Often no maintenance is necessary.

- However, it is necessary to keep the filter clean. If the filter is dirty then remove it and soak it in meths, then use compressed air to ensure it is completely dry before reattaching to the logger.

Product Liability. This information describes our products. It does not constitute guaranteed properties and is not intended to affirm the suitability of a product for a particular application. Due to ongoing research and development, designs, specifications, and documentation are subject to change without notification. Regrettably, omissions and exceptions cannot be completely ruled out. No liability will be accepted for errors, omissions or amendments to this specification. Technical data are always specified by their average values and are based on Standard Calibration Units, unless otherwise specified. Each product is subject to the 'Conditions of Sale'.

Warning: These products are not designed for use in, and should not be used for patient connected applications. In any critical installation an independent fail-safe back-up system must always be implemented.