

TruTrack Data Logger

Dual Temperature / Humidity Logger Model THT-HR mark 3

Three Channel High Resolution
(10 bit) Humidity and
Temperature Data Logger.

The THT-HR is a small Three 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. There is an additional external temperature sensor with a soil penetration probe and 1500mm of cable. The THT-HR logger uses a Sensirion SHT11 humidity sensor giving $\pm 3.0\%$ RH accuracy from 20%RH to 80%RH.

Logging can be configured to: start on time, immediate start, stop when full, loop around (overwrite oldest data).

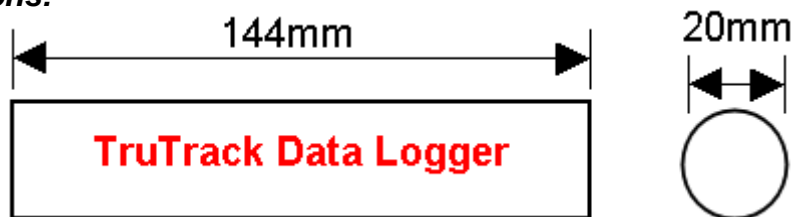
Features:

- 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 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 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: THT-HR Dual Temperature / Humidity data logger

THT-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%
Resolution	±5%RH from 0 to 20% and 80% to 100%	
Filter	0.5%RH	
	60 micron Stainless Steel	
Internal 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
External Temperature:	Sensor Type	Thermister
	Probe Type	Sharpened Stainless Steel 140mm X 5mm
	Probe Cable	Tefsel 1500mm
	Working Temperature	-30°C to +110°C
	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	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	Loop around (continues logging)
		Each channel can be set to log any combination of:
		- Point readings
		- Average reading
		- Maximum reading
		- Minimum reading
	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 144 mm long	
	1500mm external temperature cable	

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

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.