

TruTrack Data Logger

External RTD Temperature Logger Model Pt-HR mark 4

Two Channel High Resolution (16 bit) Temperature Data Logger.

The Pt-HR is a small Two Channel High Resolution (16 bit) Temperature data logger housed in a rugged 304 stainless steel case. The logger contains an internal temperature sensor which can be used for convenient logging of ambient temperature if desired, which is logged separately to an external Pt100, Pt500 or Pt1000 temperature sensor probe. Logging can be configured to: start on time, immediate start, stop when full, loop around (overwrite oldest data).



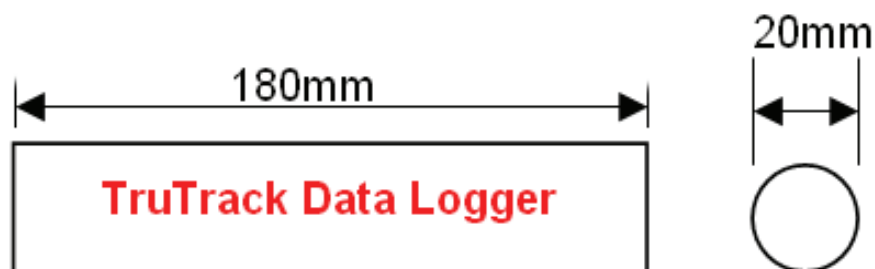
Features:

- Temperature can be set to any combination of Point, Average, Maximum & Minimum readings.
- Both the RTD and Internal Temperature can be logged, or one Temperature only.
- 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: Pt-HR External Pt100/Pt500/Pt1000 Temperature data logger

Please Note: The Pt-HR data logger is not supplied with a RTD probe. These can be ordered separately from Intech Instruments Ltd if required.

Pt-HR Dimensions:



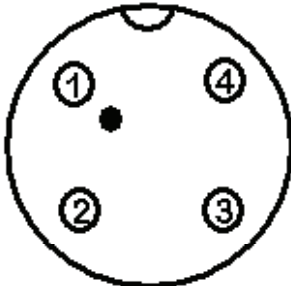
Putting into service (OmniLog Version 1.60 or greater):

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:

RTD Pt100 / Pt500 / Pt1000 Input: External Sensor Connector 4 pin Switchcraft Plug (EN3C4M)
Weatherproof; IP66

Pinout	2 Wire RTD Connection		View from Front of Socket or Rear of Plug		
1 B	A to 3				
2 B	B to 2				
3 A	Connect 1 to 2				
4 A	Connect 3 to 4				
3 Wire RTD Connection		4 Wire RTD Connection			
A to 3	A to 3				
B to 2	A to 4				
B to 1	B to 1				
Connect 3 to 4	B to 2				
Temperature Range	Pt100 / Pt500 / Pt1000		-200°C to +600°C		
Resolution	0.1°C				
Accuracy	Type	at Min Temp	at 0°C	at Max Temp	
	Pt100	±1.0°C	±0.5°C	±1.0°C	
	Pt500	±1.0°C	±0.5°C	±1.0°C	
	Pt1000	±2.0°C	±1.0°C	±1.0°C	

Note: This is the logger accuracy only and does not include inaccuracies in the particular RTD probe used.

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

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	522,240 samples logging RTD Pt Temperature only	
		362 days with 1 min logging interval, RTD only	
		4.9 years with 5 min logging interval, RTD only	
	Alarms	Two independent Alarms	
		Triggered on any combination of six user configurable alarm conditions	
		Both alarms can be configured to send SMS messages	
	Start modes	Alarms can be visually checked using the OmniLog software	
		Start immediately	Start on date/time
	Stop modes	Start on condition (e.g. Temperature > 20°C)	
		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	
		Two 3.6V lithium AA cells; User Replaceable	
		The data is retained in the case of battery failure	
	Download time	Battery Status Monitor in OmniLog software	
	Case material	9 minutes, 30 seconds for Full Logger	
	Screw on end cap	304 Stainless tube	
	Weight	Plated brass	
	Size	140g	
		20mm diameter X 180mm long	

A DLC3USB [USB] or DLC3 [RS232] download cable is required to connect the Pt-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 at 25C, 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.

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