

TruTrack Data Logger

100mVolt Logger Model mV-HR mark 3

Two Channel, High Resolution
(12 bit) Voltage Data Logger.

The mV-HR is a small Two Channel High Resolution (12 bit) Voltage data logger housed in a rugged 304 stainless steel case.

It also has an internal temperature sensor for convenient logging of ambient temperature if desired. The temperature sensor is mounted under a 0.6mm dome to give a relatively fast response time.

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



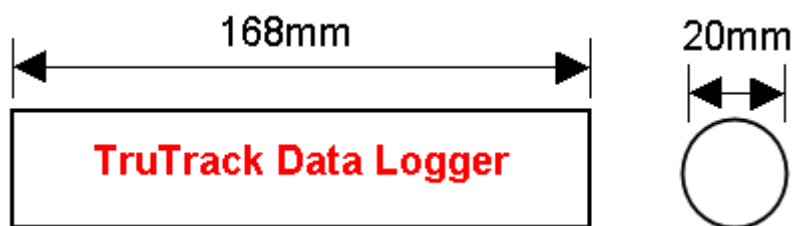
Features:

- millivolts and Temperature can be set to any combination of Point, Average, Maximum & Minimum readings.
- millivolts and Temperature can be logged in high resolution or low resolution mode.
- Low resolution mode is used to increase the number of samples.
- 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.

Ordering Information: mV-HR Voltage data logger

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

mV-HR Dimensions:

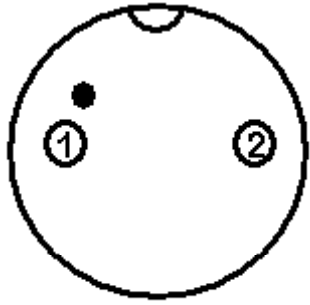


Putting into service:

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:

100mV Input:	External Connector	2 pin Switchcraft Plug (EN3C2M)	
		Weatherproof; IP66	
	Pinout	1 Positive 2 Negative	
	Maximum readable input voltage	110mV	
	Maximum voltage input without damaging logger	10 Volts	
Internal Temperature:	Input Leakage Current	1nA	
	See Note* below.		
	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	Two independent Alarms	
		Triggered on any combination of six user configurable Alarm Conditions	
		One alarm can be configured to dial a PocketPager	
	Start modes	Alarms can be visually checked using the OmniLog Software	
		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			
Battery	- Maximum reading		
	- Minimum reading		
	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 168 mm long		
A DLC3USB [USB] or DLC3 [RS232] download cable is required to connect the mV-HR to a computer.			

Note*: If the logger is connected to a computer and either input is held at mains earth potential, erroneous results can be expected due to the earth loop current.

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 independant fail-safe back-up system must always be implemented.