

Nomad Data Logger

Light Intensity and Temperature Model LT-HR32000

Standard Resolution

The LT-HR32000 is a small two channel Data-logger for Light and Temperature measurement. The standard version has a maximum reading of 1500w/m² (100,000 lux). Versions having a lower maximum reading can be manufactured to order. The light readings are linear and not cosine corrected. The logger is shipped with only a very basic calibration and does need to be calibrated by the end user against a reference light meter before use.



Specification

General

Working and Storage Temperatures	-30°C to +70°C
Sampling Rate	1 second to 10 hours in 1 second intervals
Storage capacity: single channel	32600 readings single channel
Storage capacity: dual channel	16300 readings each channel
Batteries	One 3.6V lithium cell
Download time full logger	80 seconds
Battery life	>5 years. Factory replaceable
Case material	304 Stainless tube
Screw on end cap	Plated brass
Size	20mm diameter * 120mm long

Temperature Probe and Resolution Error

Resolution	See Graph (8 Bit)
Absolute accuracy	See Graph
Linear accuracy over range	±0.2°C
Repeatability	±0.1°C
Long term stability	±0.1°C

Light probe

Maximum reading	100,000 lux. standard
Linear accuracy over range	±5%

Putting into service.

1. From the SWDL-HRC101 OmniLog software and Down Load cable kit, plug the Down Load cable into a spare serial port on your PC, and load the OmniLog software. 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 Nomad 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.
4. Now click on the "Start Logger" tab for the final configurations, before putting the logger into service.

Temperature Probe and Resolution Errors

