Nomad Data Logger

Dual Temperature / Humidity Logger Model THT-HR

The THT-HR is a small three channel datalogger for humidity and temperature measurement.

The logger may be operated in the following modes:

⇒ Single channel temperature logger to give you 32670 readings using internal probe of either actual, average, max or minimum.

⇒ Dual channel temperature logger to give you 16335 readings. One internal and one external probe.

⇒ Dual channel relative humidity (RH) / temperature logger to give you 16335 readings using internal probes.

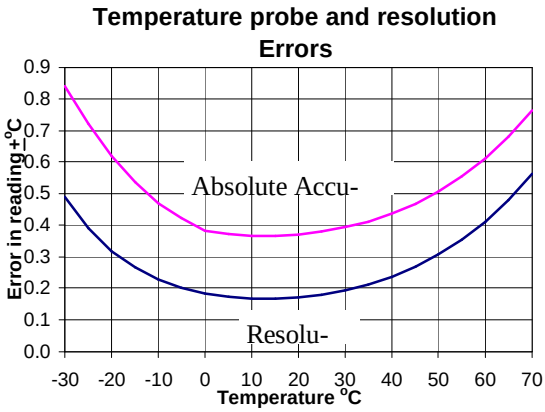
⇒ Three channel relative humidity (RH) / Dual temperature logger giving you 10890 readings.

The logger cannot be used as a single channel RH logger as the temperature readings are required to temperature compensates the humidity readings.

Specification

General

Working and Storage Temperatures	-30°C to +70°C
Sampling Rate	1 second to 10 hours in 1 second intervals
Storage capacity	32670 readings single temperature only 16335 readings RH + single temperature
Logging Modes. Each channel can be set to log any combination of:	Point readings (actual) Average readings (since last sample) Maximum readings (since last sample)
Batteries	Two 3.6V lithium cells.
Download time full logger	60 seconds
Battery life	>4 years. Factory replaceable
Case material	304 Stainless tube / 316 Stainless 60u filter
Screw on end cap	Plated brass
Weight	160g
Size	20mm diameter * 170mm long



Temperature

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

Relative Humidity

Absolute accuracy	+5% RH 0-60% RH
uncalibrated	+8% RH at 90% RH
Resolution	1% RH
Linear accuracy over range	+0.5% RH
Repeatability	+0.5% RH
Long term stability	+1% RH typical at 50%RH in 5 years

INTECH INSTRUMENTS LTD.

Christchurch
Ph +64 3 343 0646
Fx +64 3 343 0649

Nelson
Ph +64 3 546 6840
Fx +64 3 548 8797

Auckland
Ph +64 9 827 1930
Fx +64 9 827 1931

www.intech.co.nz

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.