

# SynoLog-HDx

## 3 Channel Temperature & Humidity Data Logger With Display

**The SynoLog-HDx Temperature & Humidity Data Logger** has an accurate internal temperature and humidity sensor, visual display, large logging memory and easy to use download and analysis software, ideal for recording complete time and temperature data.

### SynoLog-HDx Features

Palm sized design, 28mm x 66mm x 92mm  
Large integrated display to monitor real time temperature and humidity

Internal temperature sensor with  $\pm 0.5^{\circ}\text{C}$  accuracy ( $5^{\circ}\text{C}$  -  $40^{\circ}\text{C}$  range)

Internal humidity sensor with  $\pm 2\%$  RH accuracy (10% - 90% range)

Battery powered with replaceable batteries

Over 16,000 data points can be recorded

Programmable visual & audible alarms for high and low set points

Connect & record external probe temperatures

Download data using the Syno232 download cable

Australian designed and manufactured



**“The display makes it easy to check temperature and humidity on the run plus I know the temperatures will be recorded accurately for later download and analysis”**



### Connector Options

The SynoLog comes with a rear or bottom connector depending on your application.

The connector is for an external temperature probe and to download data to your PC.

The Connector is fitted with a dust protector when not in use.



### Downloading Data

Downloading and analysing the data from the SynoLog is made easy with the Syno232 download cable and free SynoLog Studio software.

Majority of the functions are on the main screen to make it simple to change settings, download and analyse the important data.



### Temperature Probes

The SynoLog can work standalone and can connect to an external temperature probe to measure and record temperatures from a second source.

Using digital technology each probe has an internal serial number detected and recorded by the SynoLog.

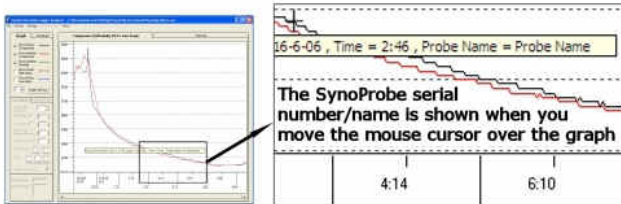
## Using digital temperature measuring technology

different SynoProbe temperature probes can be connected at separate times to the SynoLog and its serial number will be recorded, you won't even need to recalibrate for the new probe.



The digital interface enables a continued high degree of accuracy to be maintained.

The probe temperature is measured and calculated in the end of the probe reducing the pitfalls associated with using old technology such as thermocouples and thermistors.



23:14	2891596D000000F3	23.0
23:16	2891596D000000F3	23.0
23:18	2891596D000000F3	23.0
23:18	Probe Name	24.7
23:20	Probe Name	24.4
23:22	Probe Name	23.7
23:24	Probe Name	23.1
23:26	Probe Name	22.6

The SynoProbe serial number is shown in the data table (top data), the serial number can be given a relevant name (bottom data)

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## Ordering Information

<b>SynoLog-HDR</b>	3-Channel temperature & humidity logger with display and rear connector
<b>SynoLog-HDB</b>	3-Channel temperature & humidity logger with display and bottom connector
<b>Syno232</b>	RS-232 download cable for SynoLog units to connect to PC, required for initial SynoLog purchase
<b>SynoProbes</b>	Various digital temperature probes are available as well as custom probes

**Check out our other temperature and humidity loggers**

## SynoLog-HDx Specifications

### General Specifications

Dimensions	28mm x 66mm x 92mm 1.1" x 2.6" x 3.65"
Power Source	3 x AAA, 1 Year Battery Life Replaceable
Operating Range	0°C - 85°C & 0-95%RH (-30°C - 85°C with AAA Lithium)
Download Cable	Syno232 Download Cable
PC Software	Designed to use with SynoLog Studio for downloading and analyzing data.

### Display

Size	46mm x 20mm (1.8" x 0.8")
Resolution	0.1 °C (0 °C - 85 °C), 0.1°F
Update Interval	15 Seconds (7.5 sec for half an hour after a probe is connected)

### Internal Temperature & Humidity Sensor

Type of Sensor	CMOSens® technology with digital interface
Temperature Accuracy	±0.5 °C (5 °C - 40 °C), ±0.9 °F Related to temperature of internal sensor
Humidity Accuracy	±2 %RH accuracy (10% - 90% range)

### External Temperature Probe

Connector	SynoLog-HDR (Rear connector) SynoLog-HDB (Bottom connector)
Type of Probe	SynoProbe Digital Interface Probe
Measurement Range	-40 °C - 130 °C (-40 °F - 266 °F)
Serial Numbers	Each probe has a unique internal serial number which is detected and recorded by the SynoLog
More Details	Come in a range of lengths and in custom size: <a href="http://www.synotronics.com">www.synotronics.com</a>

### Temperature Alarms

Visual Alarms	High and low set points trigger separate LED's
Audible Alarms	High and low set points trigger buzzer
Snooze Function	Buzzer can be snoozed for a preset amount of time after trigger

### Memory

Recording Sampling Rate	0 - 800 minute Interval (1 minute steps)
Memory Type	Non-Volatile Eeprom
Data Capacity	> 16,000 Samples
Data Retention	> 100 Years Without Power

### Other Specifications

Scheduled Record	Unit can be set to start recording at a pre specified start time and stop at a pre specified end time
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