ESIS

Industrial Electronics

Hygrochron Temperature/Humidity Logger

Temperature/Humidity loggers sample the temperature and humidity at regular intervals, and record the date, time, temperature and humidity in memory. These readings can then be downloaded to a computer to be viewed, saved and viewed again at a later date.

This allows you to know exactly what the temperature and humidity were at all times. You can determine if your goods are usable, if something is too hot or cold, or to prove that everything is acceptable. The date and time information allows you to know exactly when a problem occurred.

Construction

The Hygrochron 's stainless steel housing makes it almost indestructible. It will easily cope with rough handling and abusive environments. The humidity sensor is protected by a hydrophobic filter, protecting it against dust, dirt, contaminants, and water droplets/condensation.

Size

The Hygrochron is about the size of a coin. Consequently it can be placed almost anywhere. But if you don't require the small size then we can easily make it larger. See the next page for information about fobs.

Long life

With its almost indestructible construction the Hygrochron is designed to last. In fact, its built in battery will last for up to 9 years or 1 million readings. This device will outlast your computer system.

Performance

The Hygrochron is a fully functional temperature and humidity logger. It will store over 8,000 readings for later recall. Once the memory is full it will either stop recording or overwrite the oldest readings.

Applications

With an operating range down to -20°C and up to +85°C and humidity range 0-100%, the Hygrochron can cover everything from freezers to fridges to room temperature to body temperature to incubators.

Specifications

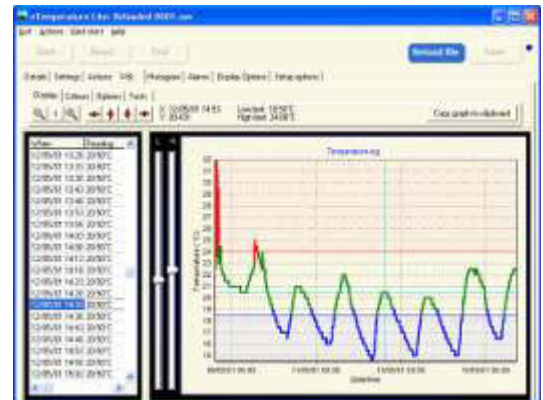|	
Dimensions	17.35mm diameter, 5,89mm thick
Housing material	Stainless Steel
Operating Range	-20 to +85°C; 0 to 100% RH
Resolution	8 bit mode: 0.5°C, 0.6%RH; 12-bit mode: 0.0625°C, 0.04%RH
Temperature Accuracy	±0.5°C with software correction
Humidity Accuracy	±5% RH with software correction
Sample rate	Once every second to 273 hours
Start delay	Up to 45 days
Log size	4096 readings (16 bit) or 8192 readings (8 bit)
After log is full	Stop recording, or continue and overwrite oldest readings
Life span	Up to 9 years or 1,000,000 readings
Reusable	Yes
Identification	Unique 48 bit number

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eTemperature Kit: Software + Reader + Case

The eTemperature software, reader and case are supplied as a kit. The software can be freely copied onto multiple PCs and the reader moved between PCs. When multiple readers are required then additional kits must be purchased.

eTemperature Software

eTemperature allows you to quickly and easily:

- set up the Thermocron/Hygrochron's sample rate, start delay, high and low alarm limits, and rollover option.

- download the results from the Thermocron/Hygrochron to the PC

- display the results as a table

- display the results as a graph. The graph supports panning and zooming to easily identify problems.

- save results for later recall.

- export results to Microsoft Excel, Microsoft Word.

- e-mail results

Minimum PC Requirements: Pentium 200MHz, Windows 98, NT3.5, 2000, XP, 32MB memory, 5MB HDD free, mouse, CD-ROM

Thermochron/Hygrochron Reader (cable)

A reader is required to connect the Thermochron/Hygrochron to a PC. Readers are available with either Serial (RS-232) or USB connection. The reader has two connectors for Thermochrons/Hygrochrons.

Plastic Fobs (optional)

If size is not a key requirement then a plastic fob is recommended to assist in the handling and mounting of the Thermochron/Hygrochron.

Fob2: The plain plastic fob is available in black, red, yellow, green and blue. The Thermocron clips in place.

Clear Fob: The clear fob is slightly larger and is clear. This allows an identifier to be inserted. The standard identifier has the distributor's logo on one side and a sequential number of the reverse. An industrial strength double sided adhesive ensures the Thermocron/Hygrochron will always stay attached.

For orders of 50 or more it is possible to have a customized logo in the design.

TC-Spy portable checker

View: Simply touch the TC-Spy to a Thermochron/Hygrochron to find:

- If any temperatures have been too high or low,

- when they occured

- and for how long.

Control: Hold the TC-Spy on for 10 seconds to:

- Stop the current mission if the Thermochron/Hygrochron is running, or

- Restart the Thermochron/Hygrochron using the last settings.

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