



An environment with an excess or insufficient humidity can put expensive computer systems or machinery at risk. Incorrect humidity levels within a computer room can threaten the reliability of the entire systems or even cause permanent damage.

Too much moisture in the air can speed up corrosion of electronic circuits, conductors and connectors, and can provide high-resistance current paths that make circuits perform unpredictably. A lack of moisture in the air increases the potential for equipment shorting out due to static-electricity.

The 'ch' range of conservation humidistats have been specifically designed to provide reliable humidity control in conservation environments.

The ch1 is a microprocessor based system with 2 outputs to switch a humidifier, a dehumidifier or both. Used in conjunction with either the HPS-01 or the HPS-03 power supplies the ch1 will control a wide variety of humidifiers, dehumidifiers and heaters (a heater can replace the dehumidifier for conservation heating purposes).

Additionally, you can take advantage of the ch2, which has all the features of the ch1, plus comfort mode, a temperature override facility for use in conservation heating schemes, where temperature temporarily becomes the main control and is overridden only at very low RH levels.

ch1 humidistat

Product Code ch1 + hps-03
Series Control

Typical Applications

Heating humidity control in:
 ° Computer rooms
 ° Stability rooms
 ° Controlled manufacturing
 ° Cold Stores

Sensor

Dimensions: 83 x 83 x 36 mm
Weight: 144 grams
Power Supply: 2 volts DC
Case Materials: ABS
Humidity Sensor: Capacitive polymer
Humidity Range: 0 to 100% non condensing
Humidity Accuracy: +/- 2%
Temperature Sensor: Precision thermistor
Temperature Range: 0°C...40°C
Temperature Accuracy: +/- 0.3°C
Display: 4 digit 7 segment LCD
Outputs: 1 x humidification, 1 x dehumidification

Switch Unit

Dimensions: 162 x 59 x 107mm
Weight: 1137 grams
Case Material: Pressed steel, black powder coated
Maximum Switching Capacity: 2.0kW (10A)

Accessories

Traceable calibration
 Slave switching units
 Radio output
 Calibration salts