

General Description

The HS-003 is a Humidity and Temperature Sensor. Two versions of this sensor offer the ability to work in either low or unusually high temperature environments. These two sensors are also designed to work in chemically hostile environments. The high temperature version can operate in temperatures up to 200°F (93°C). The low temperature sensor works in temperatures ranging from 35° (2°C) to 105° (39°C). These sensors do not come with an enclosure or case. The HS-003 sensors are compatible with Control Products, Inc. complete line of Humidity Controllers and Indicators.

HUMIDITY SENSOR
HS-003L
for low temperature applications

HS-003H
for high temperature applications

Applications

Any chemically hostile environment such as pools or chemical factories. The high temperature version is well suited for food warmers, holding bins, proofers, and other such equipment where temperatures are high.

Features

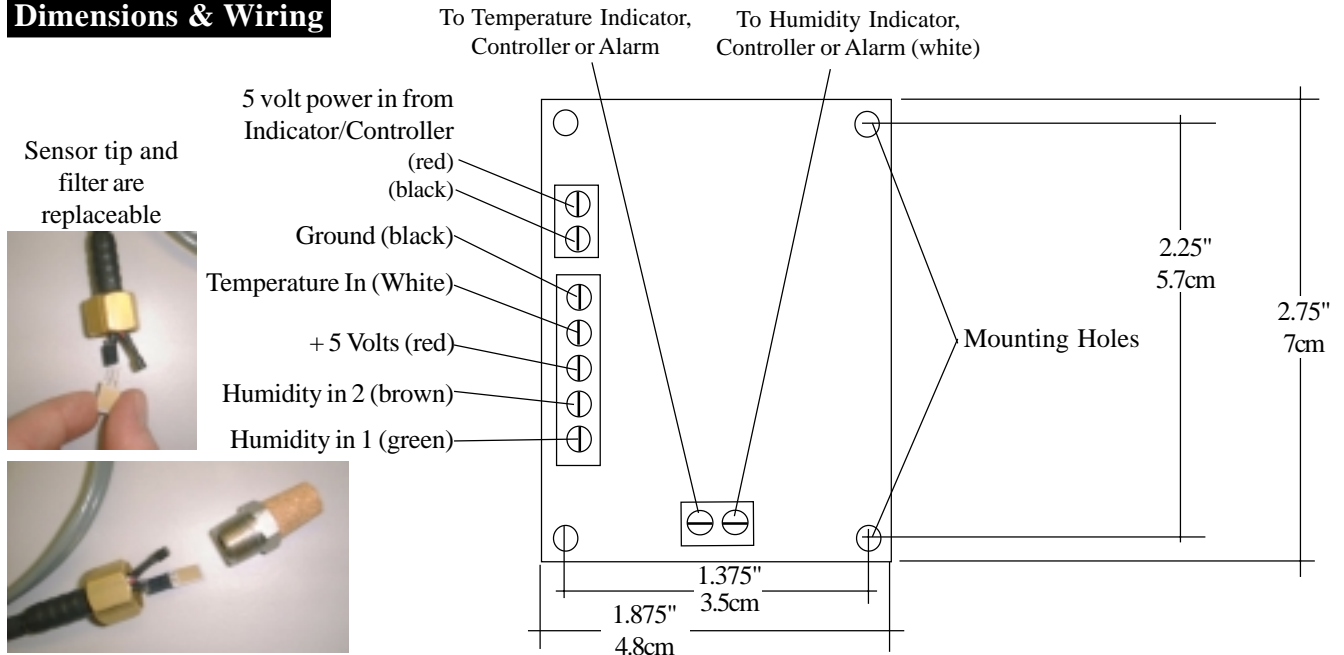
- Can withstand highly acidic and chemically adverse conditions.
- Sensor and filter can be changed out and replaced if it gets wet or becomes ineffective.
- Accurate to $\pm 3\%$.
- Monitors temperature as well as humidity with the on-board temperature sensor.

Specifications

Power requirements: 5 Volt regulated DC
Operating Range: 10 to 100% RH
Output: 0 to 1 VDC, 500mV at 50% RH, nominal, varies 10mV/%RH.
Accuracy: $\pm 3\%$ RH between 10 to 90% RH depending upon temperature change.

Ambient temperature range:
 HS-003L: 35° to 105°F (2° to 39°C)
 HS-003H: 140° to 200°F (59° to 93°C)
Humidity: 90% non-condensing
Sensor Type: Polymer Resistive
Cable Lead Length: 3' 6" (106.7 cm)

Dimensions & Wiring

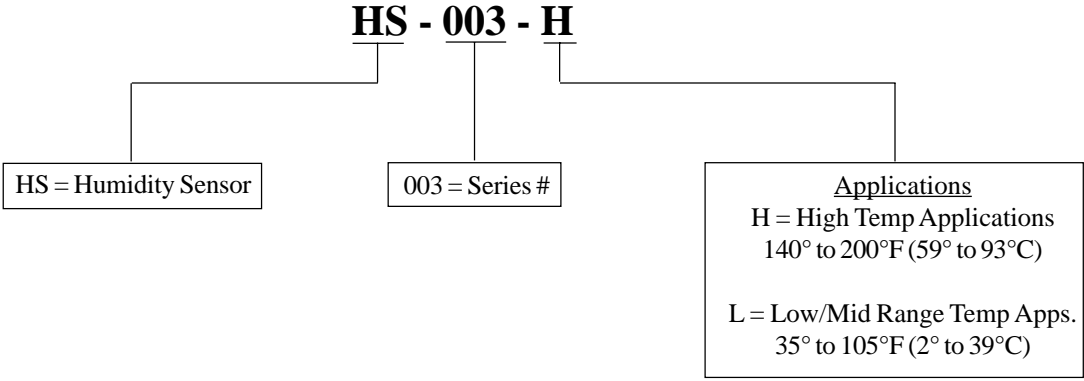


Installation

The HS-003 high and low Humidity Sensors hook up easily to any of Control Products' Humidity and Temperature Controllers, Indicators and Alarms. See Dimensions and Wiring section for more details on actual wiring to one of Control Product's Humidity or Temperature Indicators or Controllers.

Ordering Information

Please use the following example to determine the correct part number when ordering this part. Full ordering information may be found on our Standard Products Price Sheet.



REPLACEMENT SENSOR TIP & FILTER HOUSING:

In the event the actual sensor, inside the filter housing, gets wet, damaged, or ineffective, you can order replacements. The filter housing is also a replacement part. The sensor tip is the same for both the HS-003H and HS-003L.

- Replacement Sensor Tip, p/n: 40410000
- Replacement Filter Housing, p/n: 43440000

Custom Design & Modifications

In addition to standard models, Control Products specializes in complete custom design of electronic controls. Modifications of standard controls such as wire length and guarded access are also available. Please consult our sales department for more information.

Warranty

Control Products, Inc. warrants its products to be free from defects in material and workmanship under normal use for one year and is not responsible for consequential damages or installation costs of any nature. Exposure to contaminants and extreme environmental conditions such as moisture, temperature, chemicals, etc. may cause the unit to degrade or fail. Control Products accepts no liability for product applications or customer application testing.

Contacting Us

If you should need technical support or warranty service, please contact us at the appropriate number or address below. If you are returning product for service, whether it is under warranty or not, you must call and receive a Returned Goods Authorization Number (RGA#). This number must appear on the outside of the package and be sent back, prepaid, to:

Control Products, Inc.
ATTN: Returns - RGA # XXXXXX
1724 Lake Drive West
Chanhassen, MN 55317

SALES: 800-947-9098 or 952-448-2217 - Ask for Sales or Customer Service
TECHNICAL SUPPORT 952-448-2217 - Ask for Technical Support

www.controlproductsinc.com Corporate Web Site
www.controlselectric.com Standard Products Web Site
www.automationhomeproducts.com Consumer Products Web Site
sales@controlproductsinc.com To contact us via email