

# Temperature and Relative Humidity Probe Models HC-S3 & HC-S3-XT

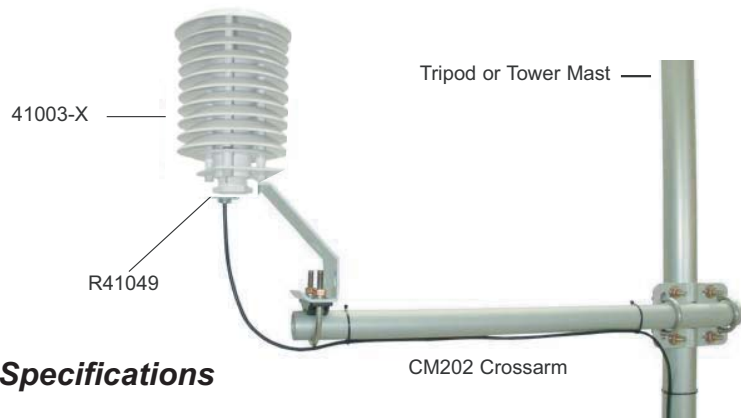
The HC-S3, manufactured by Rotronic Instrument Corp., measures air temperature with a Pt100RTD and measures relative humidity (RH) based on the HygroClip technology. Each HygroClip probe is 100% interchangeable and can be swapped in seconds without any loss of accuracy, eliminating the downtime typically required for the recalibration process.

## Sensor Mounts

When exposed to sunlight, the HC-S3 must be housed in a 41003-X 10-plate radiation shield. To attach the 41003-X to a CM202, CM204, or CM206 crossarm, place the 41003-X's u-bolt in the bottom holes. To attach the radiation shield directly to a tripod mast, tower mast, or tower leg, place the u-bolt in the side holes.

## Ordering Information

HC-S3 Temperature and RH Probe with 6 ft. lead length  
41003-X 10-Plate Gill Radiation Shield  
R41049 Adaptor



## Specifications

### Relative Humidity

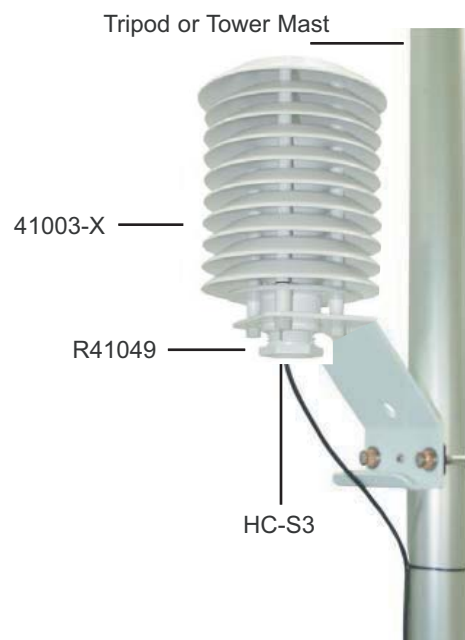
Operating range: 0 to 100% RH  
Accuracy @23°C: ±1.5% RH  
Output: 0 - 1 VDC  
Typical Long-Term Stability: Better than ±1% RH per year

### Temperature

Measurement Range: -40° to +60°C  
-50° to +50°C (model HC-S3-XT)  
Temperature Accuracy: -30°C - +60°C: ±0.2°C  
-50°C - +60°C: ±0.6°C (worst case)  
Output: 0 - 1 VDC

### General

Supply Voltage: 3.5 to 50 VDC  
(typically powered by datalogger's 12 VDC supply)  
Current Consumption: < 4 mA  
Diameter: 0.6" (15.25 mm)  
Length: 6.6" (168 mm)  
Housing Material: Polycarbonate



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