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
- R41046DS-15  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
- 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