

Temperature and Relative Humidity Probe

Models HC-S3 & HC-S3-XT

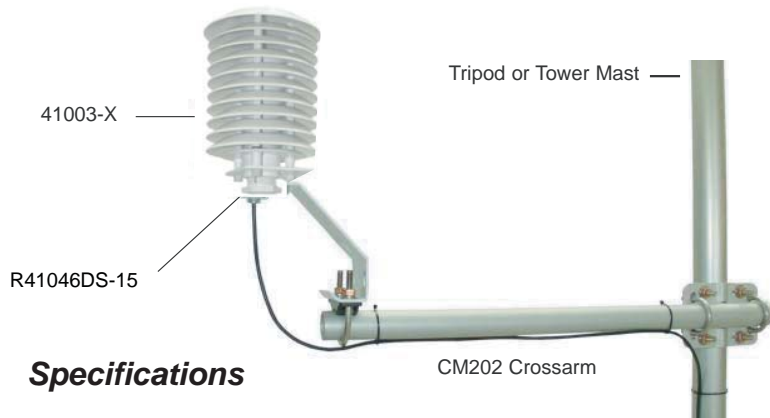
The HC-S3, manufactured by Rotronic Instrument Corp., measures air temperature with a Pt100RTD and measures relative humidity (RH) based on the HygroClip technology. Each HygroClip probe is 100% interchangeable and can be swapped in seconds without any loss of accuracy, eliminating the downtime typically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

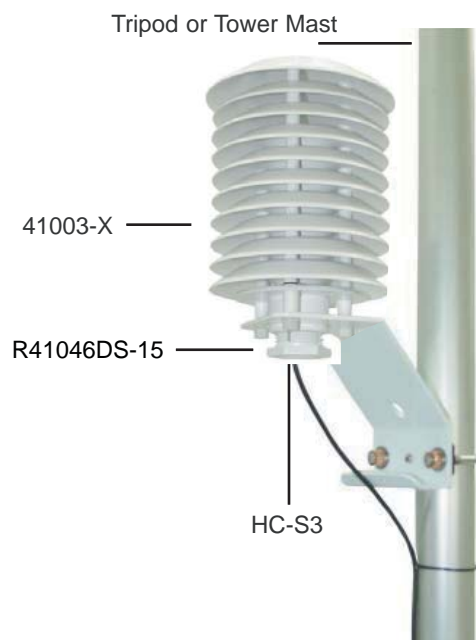
Operating range:	0 to 100% RH
Accuracy @23°C:	±1.5% RH
Output:	0 - 1 VDC
Typical Long-Term Stability:	Better than ±1% RH per year

Temperature

Measurement Range:	-40° to +60°C
	-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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