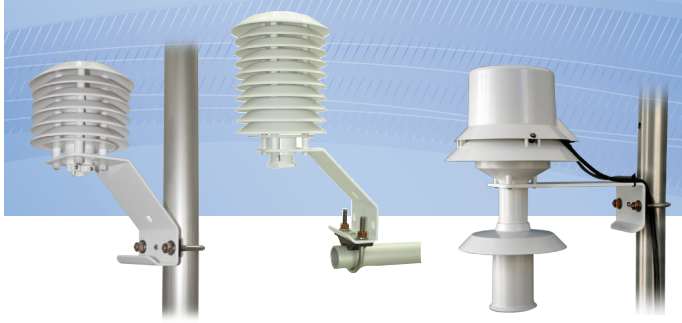
CAMPBELL SCIENTIFIC®
WHEN MEASUREMENTS MATTER

Solar Radiation Shields

For Temperature and Temperature/Relative Humidity Sensors



Rugged, Reliable, and Ready for any Application

RELIABLE SINCE 1974 MONITORING

Campbell Scientific offers several solar radiation shields that house one temperature or temperature/relative humidity probe. These solar radiation shields are white to reflect solar radiation. Both naturally-aspirated and fan-aspirated solar radiation shields are available.

The naturally aspirated shields have a louvered construction that allows air to pass freely through the shield, thereby keeping the probe at or near ambient temperature.

Radiation shields that use a fan to draw air across a temperature sensor improve the accuracy of the air temperature measurements, but increase the power requirements of the system.

MAJOR SPECIFICATIONS

	Weight	Dimensions	Compatible Sensors[a]	Mounts to	Power Requirements
41303-5A | 6-Plate Naturally Radiation Shield Shades and protects sensor 	0.4 kg (0.9 lb)	plate diameter: 11.9 cm (4.7 in.) height: 11.4 cm (4.5 in.)	107, 108, 109, CS215, HMP60	crossarm, mast, or user-supplied pipe with a 2.5 cm (1.0 in.) to 5.3 cm (2.1 in.) OD	none
41303-5B | 6-Plate Naturally Radiation Shield with Band Clamp Shades and protects sensor 	0.4 kg (0.9 lb)	plate diameter: 11.9 cm (4.7 in.) height: 11.4 cm (4.5 in.)	107, 108, 109, CS215, HMP60	CM500-series poles or user-supplied with a 5.1 cm (2.4 in.) OD	none
41003-5 | 10-Plate Naturally Radiation Shield Shades and protects sensor 	0.6 kg (1.3 lb)	plate diameter: 11.9 cm (4.7 in.) height: 20.3 cm (8.0 in.)	107[b], 108[b], 109[b], HMP60[c], HC2S3[d]	crossarm, mast, or user-supplied pipe with a 2.5 cm (1.0 in.) to 5.3 cm (2.1 in.) OD	none
41003-5A | 10-Plate Naturally Radiation Shield with Band Clamp Shades and protects sensor 	0.6 kg (1.3 lb)	plate diameter: 11.9 cm (4.7 in.) height: 20.3 cm (8.0 in.)	107[b], 108[b], 109[b], HMP60[c], HC2S3[d]	CM500-series poles or user-supplied with a 5.1 cm (2.4 in.) OD	none

		Weight	Dimensions	Compatible Sensors[a]	Mounts to	Power Requirements
41005-5 |14-Plate Naturally Radiation Shield Shades and protects sensor		~1 kg (~2 lb)	plate diameter: 11.9 cm (4.7 in.)	HMP155A	crossarm, mast, or user-supplied pipe with a 2.5 cm (1.0 in.) to 5.3 cm (2.1 in.) OD	none
43502-L | Fan-Aspirated Radiation Shield Shades and draws ambient air past sensor for more accurate measurements		1.1 kg (2.5 lb)	length: 33 cm (13 in.) diameter: 20 cm (8 in.)	43347 RTD probe other sensors with up to 0.9 in. (2.5 cm) diameter	crossarm, mast, or user-supplied pipe with a 2.5 cm (1.0 in.) to 5.3 cm (2.1 in.) OD	12 to 14 Vdc @ 500 mA for blower

[a] Only currently-available sensors are listed. Refer to our website for compatibility with retired sensors.

[b] The 41322 adapter is required to install a 107, 108, or 109 probe in a 41003-5.

[c] For the HMP60, the 41322 adapter can be used to mount the sensor in the lower part of the 41003-5. Alternatively, a 41381 extension tube and the 6637 hex plug can be used to mount the HMP60 in a higher part of the shield; this configuration also requires the 18278 cable.

[d] The 27731 hex plug is required to mount the HC2S3 in the 41003-5.