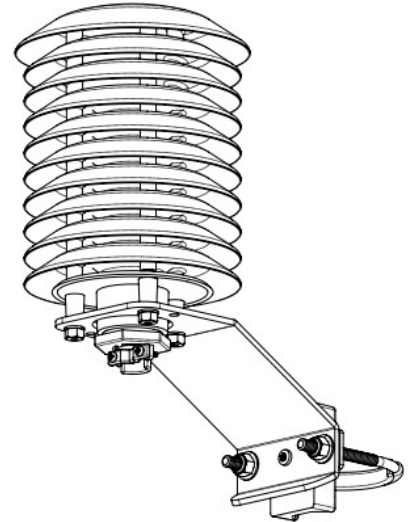


380-41003 Solar Radiation Shield

The **380-41003 Solar Radiation Shield** protects temperature and relative humidity sensors from error-producing solar radiation and precipitation. This shield relies on a combination of plate geometry, material and natural ventilation to provide effective shielding.

- Thread-in adapters accommodate various probes
 - **380-41003** 0 to 16 mm diameter (0 to 0.63")
 - **380-41003P** 16 to 26 mm diameter (0.63" to 1.0")
 - **380-41003-24** 24 mm diameter (0.94")
- Powder coated aluminum bracket fits 1" to 2" (25 to 50 mm) mast
- Wall mount option



380-41003 Sunshield

INSTALLATION

Model 380-41003: Loosen the two screws holding the plastic probe retainer on the bottom of the radiation shield. For larger probes, remove the retainer and turn it over to enlarge the opening. Install the probe inside the sunshield so that the tip is no closer than one inch (2.5 cm) from the upper cap. Tighten the screws on the plastic probe retainer until the probe is firmly held in place. Do not over-tighten the screws.

Model 380-41003P: The thread-in adapter must be machined to the proper size for the probe. If the probe was ordered with the sunshield then the adapter is already prepared.

Model 380-4100-24: The adapter is designed for use with \varnothing 24 mm diameter probes, such as the 210-41342 Temperature Probe or 225-41382 Temperature & Humidity Probe. Install the sensor and then tighten the adapter until the probe is held firmly.

For Pipe Mounting

- 1) Remove the U-bolt from the mounting bracket.
- 2) Secure the bracket to a 1" to 2" (25 to 50 mm) diameter mast.

For Surface Mounting

- 1) Remove the U-bolt and the screw holding the pipe retaining bracket.
- 2) Mark the outer two holes of the mounting bracket on the surface.
- 3) Drill the two holes marked in the previous step into the surface.
- 4) Attach the radiation shield with appropriate fasteners (not included).

380-41003 Solar Radiation Shield with Bracket

	1 probe (temperature, humidity or combined temp/RH)
Capacity	Model 380-41003: 0 to 16 mm (0 to 0.63")
	Model 380-41003P: 16 to 26 mm (0.63" to 1.0")
	Model 380-41003-24: 24 mm (0.94")
Radiation error @ 1080 W/m ² intensity, dependent on wind speed	0.4°C (0.7°F) RMS @ 3 m/s (6.7 mph) 0.7°C (1.3°F) RMS @ 2 m/s (4.5 mph) 1.5°C (2.7°F) RMS @ 1 m/s (2.2 mph)
Material	UV stabilized white thermoplastic plates
	Aluminum mounting bracket, white Stainless steel U-bolt clamp
Mounting	Vertical pipe mount: 1" to 2" (25 to 50 mm) o.d. with U-bolt Surface mount: Remove U-bolt. Mounting screws not included.
Size	5.1" Dia x 10.6" H (130 x 270 mm) mounting arm 6" L (152 mm)
Weight / Shipping	1.5 lb (0.7 kg) / 3 lbs (1.4 kg)

ORDERING INFORMATION

380-41003	Solar Radiation Shield (sensor diameter 0 to 16 mm)
380-41003P	Solar Radiation Shield (sensor diameter 16 to 26 mm)
380-41003-24	Solar Radiation Shield (sensor diameter 24 mm)
380-41390	Junction Box (accommodates sensors up to 0.4" diameter (10 mm) <i>Note: Use with 380-41003-24 Solar Radiation Shield.</i>