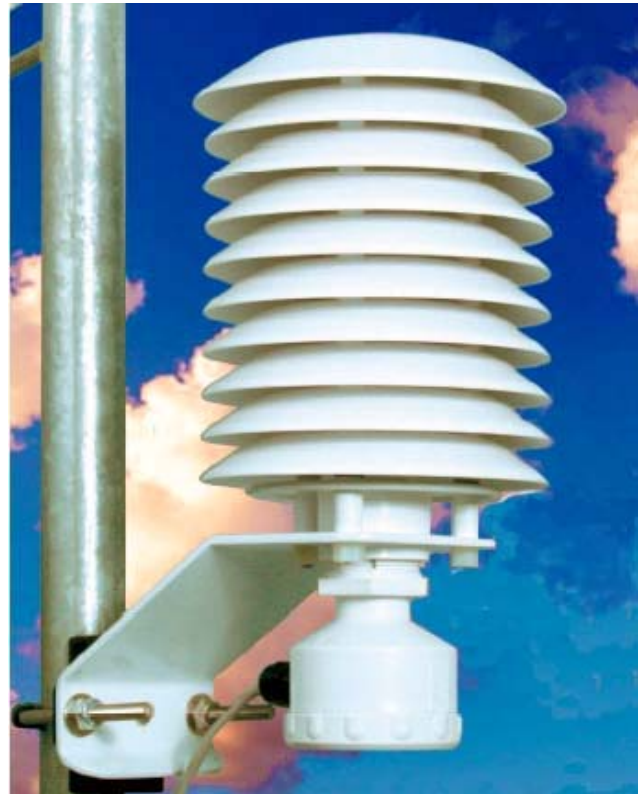


SAR100 Solar Radiation

Multi-Plate Solar Radiation Shield

This self-aspirated radiation shield protects relative humidity, temperature, and dew point temperature sensors from the negative affects of solar radiation and precipitation. The multiple plates block direct and scattered radiation and promote air flow past the sensors. The disc material has high reflectivity, low thermal conductivity, and maximum durability in outdoor conditions. The SAR100 is frequently used on automatic weather stations where AC power is not available.



Ordering Information

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| 41003 | SAR100 10-plate radiation shield. Includes universal adapter for sensors up to 12.5mm diameter. |
| 41003P | SAR100 10-plate radiation shield with custom sensor adapter 12.5 mm to 26 mm. Specify sensor diameter. |
| 41303 | SAR100 6-plate radiation shield. Includes universal adapter for sensors up to 15mm in diameter. |

Technical Specifications

Capacity:	One probe up to 26 mm (1 inch) diameter
Radiation error:	At 1080 W/m ² intensity 0.4°C (0.7°F) RMS @ 3 m/s (6.7 mph) 0.7°C (1.3°F) RMS @ 2 m/s (6.7 mph) 1.5°C (2.7°F) RMS @ 1 m/s (6.7 mph)
Material:	White thermoplastic, UV stabilized. Gloss white painted aluminum mounting bracket. Stainless steel U-bolt
Dimensions:	12 cm (4.7 in) D x 27 cm (10.6 in) H U-bolt fits vertical pipe 25-50 mm (1 – 2 in)
Weight:	0.7 kg (1.5 lbs)
Mast Diameter	1 to 2 inches (25 to 50 mm)
Weight:	1.5 lbs (0.7 kg) 10 plate shield