

Sensor Shelter

Model SS4
Model SS5
Model SS6 (Aspirated)
Model SS1



These radiation shields provide a cost effective, low maintenance alternative to the conventional Stevenson Screen. The SS4 and SS5 are naturally ventilated sensor shelters that are designed to minimise inaccuracy of measurement of ambient air temperature and relative humidity caused through radiation effects. They have a dual function that is to protect sensors directly from the elements, and to provide an effective barrier against solar radiation.

These sensor shelters house Air temperature, Wet and dry bulb, Relative humidity and Barometric pressure sensors. The shelters consist of eight spun aluminium “saucers” that are protected by a PVC powder coated finish, permitting clear air passage.

The Model SS5 is slightly smaller than the SS4 and is intended for use with fewer sensors (not wet and dry bulbs) and for mounting on masts.

For applications where an aspirated shelter is required, the SS4 and SS6 with a 12 volt 200 ma fan are available.

All versions have a black matt coating on the underside of the saucers. This improves performance by as much as 0.4°C in still air by reducing the visible light level inside the shelter. The double ventilated roof insulated with Styrofoam helps to minimise differentials between screen and true ambient temperatures.

The Model SS1 miniature shelter is designed to accommodate a single air temperature sensor for specific research purposes such as canopy temperature.

Features

- Strong Lightweight Design
- Reduced Mass for Fast Response
- Double Ventilated Roof
- Very Low Maintenance
- Alternative sizes
- Optional Aspirated Versions
- Cost Effective

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Applications

- General Meteorology
- Ambient Temperature Monitoring
- Relative Humidity Monitoring
- Agricultural Research
- Animal Comfort
- Atmospheric Pressure Monitoring

Quality Assurance

Monitor Sensors products are manufactured under a third part accredited system ISO9002.

Specifications

Material: Spun aluminium louvres with white polyester(UV stabilised) powder coated finish. Interior Matt black enamel coated.

Weight (unpacked):

SS4	2460 grams
SS6	2580 grams
SS5	2120 grams
SS1	40 grams

Dimensions:

	<u>External Diameter</u>	<u>External Height</u>
Model SS4	285 mm	365 mm
Model SS6	285 mm	405 mm
Model SS5	250 mm	350 mm
Model SS1	65 mm	100 mm

	<u>Internal Diameter</u>	<u>Internal Height</u>
Model SS4/6	150 mm	285 mm
Model SS5	75 mm	250 mm
Model SS1	25 mm	85 mm

Mounting:

Model SS4/6	Standard "top hat" mounting 4 holes on 80 mm x 95 mm pitch
Model SS5	Standard "top hat" mounting 4 holes on 72 mm x 80 mm pitch

Optional 3/4" BSP water pipe flange also available for All SS4 and SS5 models. Note: Please specify type of mount required when ordering.

Model SS1	Three 55 mm mounting legs at Base of shelter designed to fit around TA1 temperature sensor.
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Related Products:

AWS1	Automatic Weather Station
AWS2	Farmers Weather Station
HU1	Relative Humidity Sensor
BP1	Barometric Pressure Sensor
TA1	Air Temperature Sensor
TA2	Wet and Dry Bulb Temperature Sensor
LH3	Logger Housing
LH4	Logger Housing