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

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.

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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:**

<table>
<thead>
<tr>
<th>Model</th>
<th>External Diameter</th>
<th>External Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS4/6</td>
<td>285 mm</td>
<td>365 mm</td>
</tr>
<tr>
<td>SS6</td>
<td>285 mm</td>
<td>405 mm</td>
</tr>
<tr>
<td>SS5</td>
<td>250 mm</td>
<td>350 mm</td>
</tr>
<tr>
<td>SS1</td>
<td>65 mm</td>
<td>100 mm</td>
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<table>
<thead>
<tr>
<th>Model</th>
<th>Internal Diameter</th>
<th>Internal Height</th>
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</thead>
<tbody>
<tr>
<td>SS4/6</td>
<td>150 mm</td>
<td>285 mm</td>
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<tr>
<td>SS5</td>
<td>75 mm</td>
<td>250 mm</td>
</tr>
<tr>
<td>SS1</td>
<td>25 mm</td>
<td>85 mm</td>
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**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
- Model SS1: Three 55 mm mounting legs at Base of shelter designed to fit around TA1 temperature sensor.

**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

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