



Sensor Shelter (SS31) Mounting Arm (MA30)

Features

- Equivalent to standard Stevenson Screen
- Mounting arm facilitates air flow
- Protects air temperature & relative humidity sensors
- Special louvred design prevents entry of direct & reflected radiation & precipitation
- Easy removal of screen to access sensors
- Aluminium and stainless steel construction
- Sturdy, low-maintenance design
- Simple to mount, protects sensor cables

Description

The SS31 sensor shelter is designed to be base mounted on a horizontal MA30 mounting arm.

The shelter protects temperature and humidity sensors from direct sunlight (radiation) and from rain. This allows the sensors to measure true air temperature and humidity "in the shade".

A double roof containing a thermal insulation layer on the top minimises direct heating from sunlight.

The "double louvred" design allows free horizontal airflow without permitting entry of sunlight from any angle, including light reflected off the ground.

Testing has shown that this compact, affordable and robust enclosure closely matches the performance of the Australian Standard "Stevenson Screen".

The body of the shelter lifts off from the base for easy cleaning of the louvres and sensor inspection.

Rugged Construction

Both the mounting arm and the sensor shelter are made of powder-coated aluminium.



The mounting arm includes a sealing cap at the end and fully encloses the sensor cables for protection.

Envirodata Weather Stations Pty Ltd

P.O. Box 395, WARWICK, Queensland, 4370, Australia

Phone: (07) 4661 4699

Int. Phone: + 61 7 4661 4699

Fax: (07) 4661 2485

Int. Fax: +61 7 4661 2485

ABN: 77 131 757 125

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<http://www.envirodata.com.au>

e-mail: sales@envirodata.com.au

Version 130507



Spring loaded stainless steel brackets for mounting Envirodata temperature and humidity sensors are located in the base of the shelter.

Dimensions

Sensor Shelter, SS31:

- Diameter 19.5 cm, height 20.5 cm
- Weight 1200g

Mounting Arm, MA30:

- 50 x 50 mm SHS Aluminium 580 mm long
- Weight: 950g

Mounting Options

Whether you are installing a suite of sensors or a whole weather station, Envirodata offers a wide range of robust, integrated mounting options.

The SS31 is available with an adjustable base for mounting over posts or rails with a diameter from 40mm to 75mm (SS11ADJ). We can also provide a stand alone post to mount the SS11ADJ shelter independently.

IS31 2m Mounting Mast & XA31 Cross Arm

The IS31 & XA31 are robust and corrosion resistant, made from 65 x 65 x 3mm SHS aluminium, powdercoated, and designed with integral sensor and system mountings.

The IS31 mounts the MA30 & SS31 sensor shelter at 1.5m and the XA31 cross arm at 2m.

The XA31 cross arm is designed to mount the wind speed, wind direction, solar radiation and black globe temperature sensors.

The IS31 includes mounts for Envirodata's solar panels, square trunking for cable protection and an earthing kit as standard.

LH35 Lockable Housing

The LH35 lockable housing is designed to provide additional physical protection to Envirodata's IP66 data logger enclosures and mount easily and directly onto the IS31.



The Weather Maestro above is shown with the IS31 2m Mast, XA31 1m Cross Arm, LH35 Lockable Housing & MA30 Mounting Arm with SS31 Sensor Shelter

Made from 3mm thick aluminium, the LH35 allows for cable entry direct from the IS31 for sensors on the cross arm. Cables also enter the base of the LH35 from the square conduit on the front of the IS31 for sensors on a separate mast or at a distance.

The LH35 includes integral brackets to mount Envirodata's barometric pressure sensor, and can also mount local alarm beacons if chosen.

The IS31, XA31, LH35, MA30 & SS31 provide a simple, robust and integrated weather station mounting package. Envirodata can supply 3m, 5m, 10m and custom mounting masts to suit your requirements.

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