

6-PLATE SOLAR RADIATION SHIELD

Highlights

- Adjustable sensor mounting collar works with Evvos' relative humidity, air temperature and barometric pressure sensors or similar sensors
- Universal mount fits 20mm to 40 mm (3/4" to 1-1/2") pipe or flat surface

Applications

- Agriculture
- Weather stations
- Building outside air, humidity, and barometric pressure reference



The Solar Radiation Shield protects outside air humidity sensors from rain and radiated heat. With the curved shape and color of the plates, air flow moves across the sensor to keep radiated temperatures from rooftops and surrounding surfaces from affecting humidity readings. For ease of installation, this solar radiation shield has integral pipe mounting hardware which can be removed for surface mounting applications.

Installation

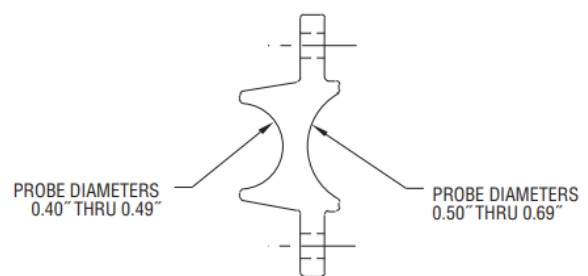
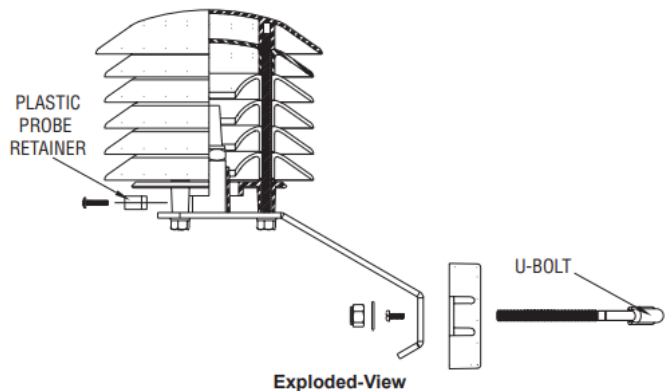
- Step 1: Loosen plastic probe retainer on radiation shield by unscrewing two retainer screws.
- Step 2: Slide humidity transmitter probe completely into radiation shield.
- Step 3: Screw plastic probe retainer to the radiation shield until the probe is firmly held in place. Do not over tighten the screws.

For Pipe Mounting

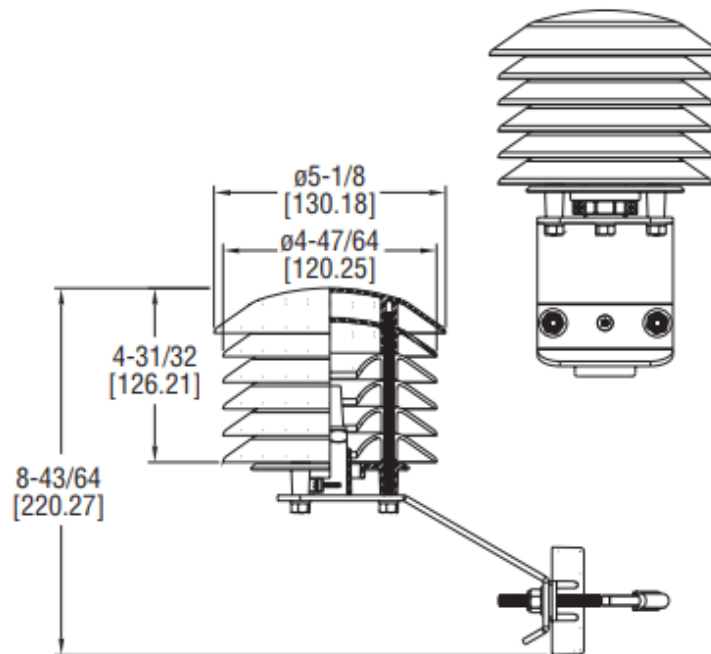
- Step 4: Remove the u-bolt from the mounting bracket.
- Step 5: Secure the radiation shield to 20mm to 40 mm (3/4" to 1-1/2") iron pipe.

For Surface Mounting

- Step 4: Remove the u-bolt and the screw holding the pipe retaining bracket.
- Step 5: Mark the outer two holes of the mounting bracket on the surface.
- Step 6: Drill the two holes marked in the previous step into the surface.
- Step 7: Attach the radiation shield to the surface



Optional Two Sided Probe Retainer



RECOMMENDED - RELATIVE HUMIDITY, TEMPERATURE AND BAROMETRIC PRESSURE SENSOR (RHTP)

The well-crafted Evvos RHTP probe, combines meteorological grade barometric pressure sensor, relative humidity, and air temperature measurements. It is designed to provide high-quality environmental data, real-time measurements, and calculation of multiple parameters.



Applications

- Environmental monitoring
- Weather forecasting solutions
- Industrial data acquisition
- Precision agriculture/farming
- Cold chain and HVAC applications
- Internet of things

Primary parameters

- Relative humidity
- Air temperature
- Barometric pressure

Secondary parameters

- Absolute humidity
- Dew point
- Wet-bulb temperature
- Vapour pressure
- Saturated vapour pressure
- Atmospheric pressure at sea level
- Heat index
- Mixing ratio
- Specific enthalpy
- Boiling point of water
- Speed of sound in air
- Water activity in air