COMETEO Professional Multi-Plate Radiation Shield for Weather Sensors

code: F8001



Professional passive solar radiation shield for better protection of weather sensors and barometers and for more accurate measurement, naturally ventilated.
WINNER of the Intercomparison of Thermometer Screens in the Arctic under the auspices of the World Meteorological Organization - WMO

Multi-plate radiation shield is used to protect weather monitor systems and provides the most accurate climate measurement results. The uniquely designed screen minimizes solar radiation reaching the sensor, minimizes radiation absorbed by the screen and maximizes ambient air flow around the weather station sensor. The surface exposed to sunlight is made of highly reflective UV and long-term stable ASA plastic. The inner surfaces of the screen are made of matt black plastic to minimize internal reflections. Large 210mm diameter of 14 plates is designed to provide full protection of weather sensor.

Each of the fourteen black louvres is equipped with a circular slot allowing air to flow vertically through the entire radiation shield. The slot also separates the sunlit part of the louvre from the inner part and thus prevents heat transfer to the sensors.

Thermometer screen is designed for the installation of sensors with a diameter of 13 to 18 mm.

Also available is the COMETEO F8004 model with four mounting grommets for up to four measuring probes.

Excellent wasp and bug deterrence. Sophisticated design prevents insects from building nests inside and thus degrading measurement.

Low cost replacement for Stevenson screen, taking advantage of reduced maintenance and better performance due to the low time constant compared to the traditional Stevenson screen.

Can be used with most instruments and probes, e.g. Vaisala, Rotronic.

Technical data

GENERAL TECHNICAL DATA	
Temperature operating range	-40 to +65 °C
Relative humidity operating range	0 to 100 %RV
Storage temperature range	-40 to +65 °C
Storage relative humidity range	0 to 100 %RV (no condensation)
Diameter of the installed probe	13 to 18 mm
Fixing the shield	on a pipe with a diameter of 20 to 50 mm

Dimension	250 mm (diameter), 396 mm (height)
Weight	approximately 2.4 kg (without mounting clamps)
Material	UV stabilized ASA, stainless steel
Warranty	3 years