# COMETEO Professional Radiation Shield for Weather Sensors, actively ventilated with built-in fan



code: F8200

Professional actively ventilated solar radiation shield for better protection of thermometers hygrometers barometers CO2 meters and dataloggers for more accurate measurement.
Multi-plate radiation shield is used to protect weather sensors and provides more accurate measurement results. The shield minimizes radiation reaching the sensor, minimizes radiation absorbed by the shield and maximizes ambient air flow around the sensor. The enlarged top plate „cap“ is 210mm in diameter and designed to provide shade for high solar angles for lower plates and also for full protection of measuring device placed underneath.

Optimized design combines all excelent features of multi-plate shield with effective active ventilation by means of a high performance fan powered from external 12Vdc voltage. The unique design allows the use of a low energy fan that minimizes potential sensor's parasitic heating from the fan motor.

**The most important advantage of artificial ventilation of the shield is the reduction of the daytime radiation error especially in calm days with low winds.**

**"Not only radiation shield, but the complete COMETEO system minimizing negative effects"**

**Works with COMET instruments -** see OPTIONAL ACCESSORIES

## Technical data

| GENERAL TECHNICAL DATA | |
|---|---|
| Supply voltage | 12 Vdc |
| Power consumption of fan | 0.6 W |
| Pulse output | 2 pulse / rev. (max. current of output is < 5 mA, the pulse output is not protected against short circuits) |
| Temperature operating range | -30 to +80 °C |
| Relative humidity operating range | 0 to 100 %RH |
| Storage temperature range | -30 to +80 °C |
| Storage relative humidity range | 0 to 100 %RH (no condensation) |
| Dimension | 220 mm (diameter), 250 mm (height) |
| Weight | approx. 900 g |
| Material | ASA - UV stabilized, antistatic |
| Warranty | 3 years |