

Professional **radiation shields**



Prometeo Radiation Shields

The Prometeo Multi Plate Radiation Shield is expertly engineered to provide robust protection for meteorological and climate monitoring systems, ensuring the highest possible measurement accuracy. Its advanced multi plate design significantly reduces both the amount of solar radiation reaching the sensor and the heat absorbed by the shield itself. This dual effect is essential to preserve data integrity and prevent external influences from distorting sensor readings.

The radiation shields are WINNER of the Intercomparison of Thermometer Screens in the Arctic, conducted under the auspices of the World Meteorological Organization (WMO), confirming their outstanding performance under extreme environmental conditions. In addition, the Prometeo design maximizes natural ambient airflow around the sensor, which is crucial for capturing precise environmental data such as air temperature and relative humidity. The outer surface is manufactured from UV resistant, highly reflective ASA plastic, ensuring long term durability even under prolonged exposure to sunlight and harsh weather conditions. The inner surfaces are made of matte black plastic, effectively minimizing internal reflections that could compromise measurement accuracy.

Prometeo ATF8000

Full Enclosure Sensor Shield for maximum shielding of sensitive instrumentation

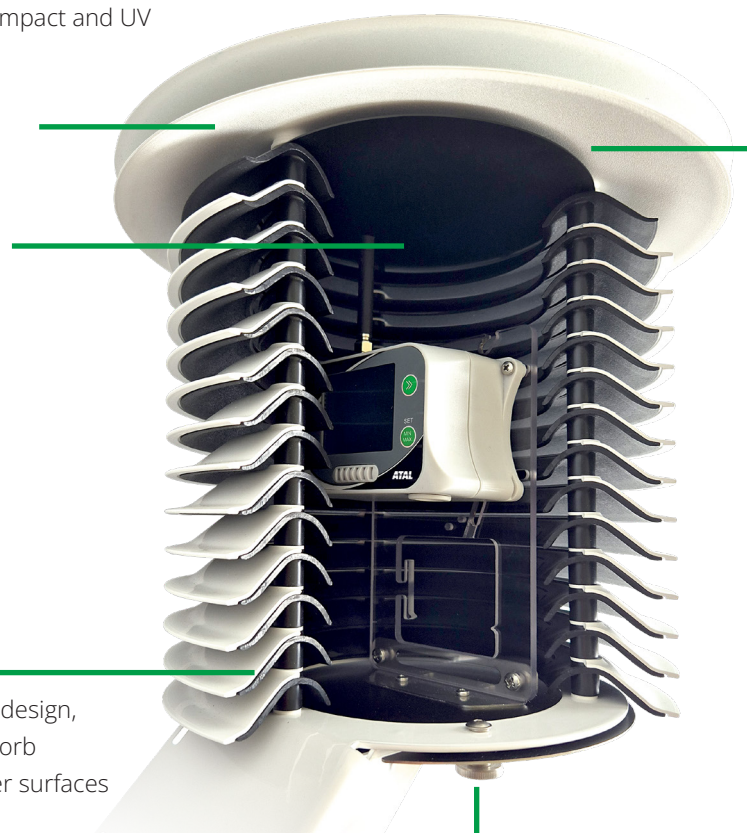
Manufactured from high quality ASA plastic, providing excellent resistance to mechanical impact and UV radiation

Optimised for high reflectivity, low thermal conductivity, and maximum weather resistance

Advanced dual colour multi plate design, featuring black undersides to absorb residual radiation and white upper surfaces to reflect solar radiation

Exceptional long term material stability, ensuring reliable performance throughout prolonged outdoor exposure

Integrated mirror to reduce reflected radiation from water surfaces, snow or desert sand, improving measurement accuracy in challenging environments



With a substantial diameter of 210 mm and a construction of 14 plates, the Prometeo radiation shield provides comprehensive protection for sensors. This design not only extends sensor lifespan but also ensures consistently accurate and reliable climate data over long periods.

The Prometeo Radiation Shield is available in three variants, each optimized for specific measurement requirements. The first variant allows the entire measuring device to be housed within the shield, featuring a cylindrical internal space with a diameter of 110 mm and a height of 210 mm, suitable for a wide range of sensors. The second variant includes a single pass through for an external probe with a diameter of up to 18 mm, enabling flexible probe positioning outside the main enclosure. The third variant is equipped with four separate pass throughs (Ø 18 mm), allowing multiple probes to be connected simultaneously, offering maximum versatility and adaptability for complex measurement applications.

Prometeo F8001 Radiation Shield with Single Probe Port

Protective radiation shield equipped with a single probe port, designed to ensure accurate and reliable environmental measurements while maintaining optimal sensor exposure.

Prometeo F8004 Radiation Shield with Four Probe Ports

Protective radiation shield featuring four probe ports, specifically designed for comprehensive and multi parameter measurement applications requiring maximum flexibility.



Available Types of COMETEO

Prometeo ATF8000 – Full Enclosure Radiation Shield

1.

The **ATF8000** features large diameter lamellae of **210 mm**, providing maximum protection for measuring devices installed within its cylindrical interior space, which has a **diameter of 110 mm**. This full enclosure design ensures optimal shielding against solar radiation and environmental influences.

Prometeo ATF8001 – Radiation Shield with Single Probe Port

2.

The **ATF8001** is a universal, naturally ventilated radiation shield designed to protect measuring probes with diameters ranging from **13 to 18 mm** against weather effects. If required, alternative mounting bushings can be supplied to accommodate probes of different diameters, ensuring broad compatibility.

Prometeo ATF8004 – Radiation Shield with Four Probe Ports

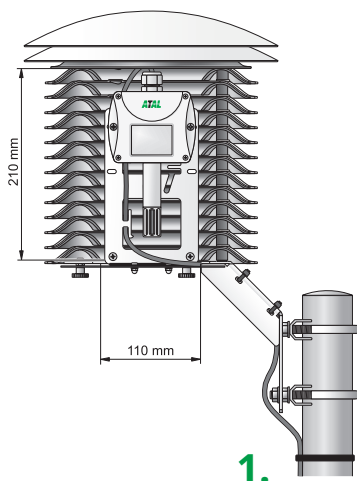
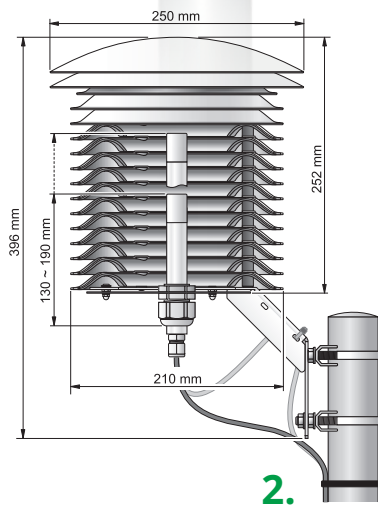
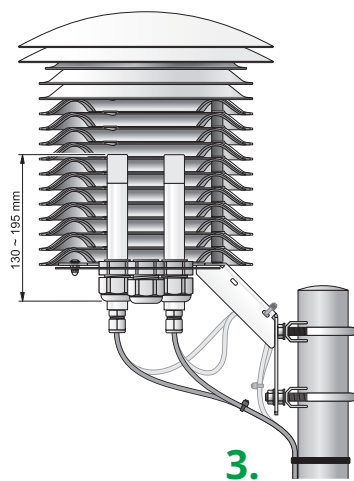
3.

The **ATF8004** version is equipped with **four probe ports (mounting bushings)**, allowing multiple sensors or probes to be installed simultaneously. This configuration is ideal for multi parameter and advanced measurement applications.

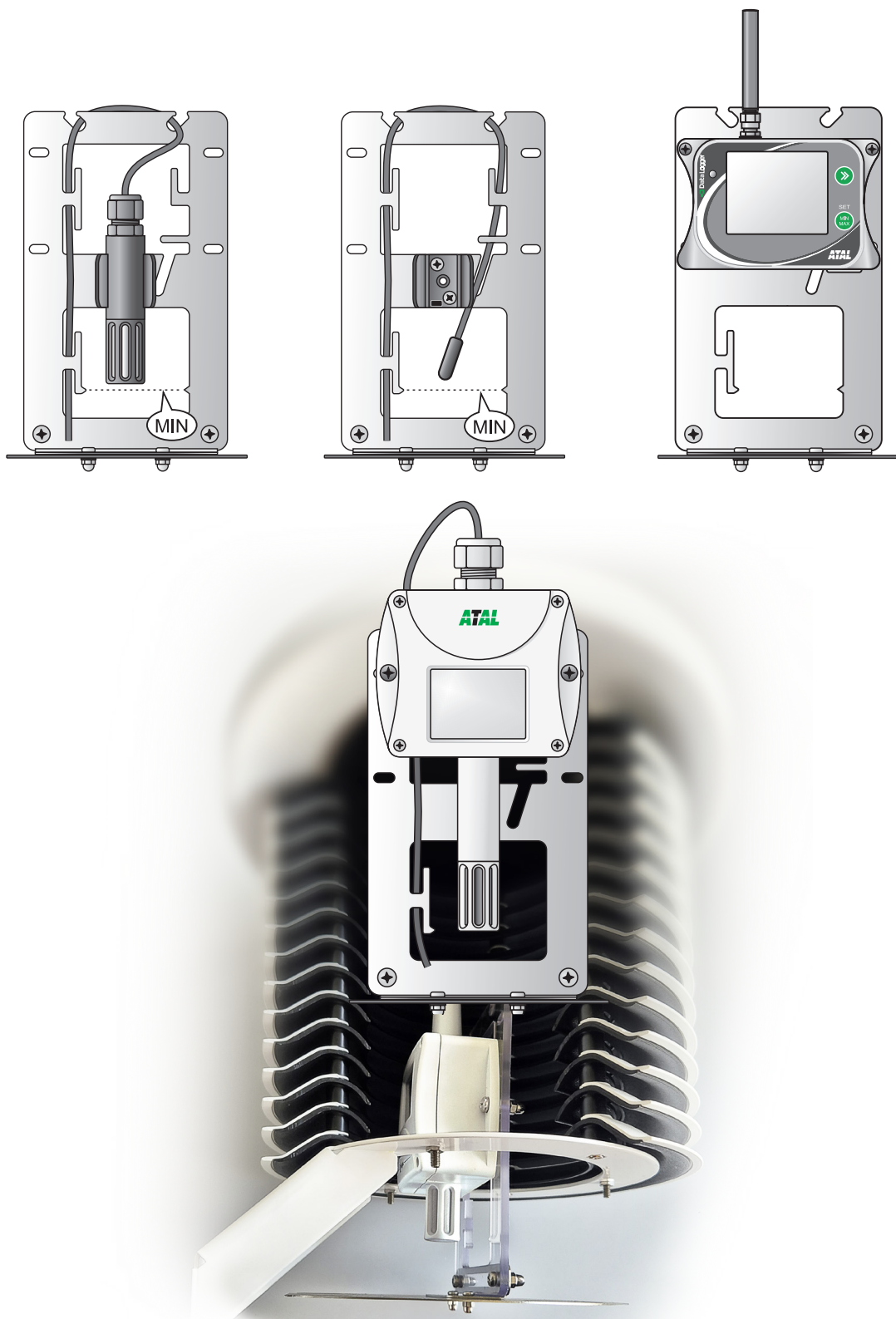


Compatibility

Versions **F8001** and **F8004** are compatible with most commonly used measuring devices and probes, including systems from manufacturers such as **Vaisala** and **Rotronic**.



The Prometeo radiation shield provides internal space for the installation of a mounting bracket, allowing measuring instruments and sensors to be securely mounted inside the shield, subject to the available internal dimensions. Sensors, probes, and other measuring equipment can be mounted on this bracket as long as the size and configuration of the instruments permit. The cylindrical interior is available in configurations with an internal diameter of 210 mm or 110 mm and supports multiple mounting options via the universal bracket system, ensuring flexible and stable installation.





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