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COMETEO Multi-plate Meteo Shield for Weather Sensors



code: F8100

Newly developed multiplate meteorological screen for humidity and temperature transmitters. Solar radiation and weather shelter for meteo sensors.

Applications:

- meteorological
- weather stations
- snow guns
- building management systems

Unique optimized design for best performance:

- transmitter entirely protected inside the shield
- prevention of condensation by downward sensor orientation
- advanced weather protection by maximised top cover area
- passively ventilated, requires no power

Multiplate radiation shield is used to protect air temperature and humidity sensors.

Optimized shield design minimizes radiation reaching the sensor, minimizes radiation absorbed by the shield and maximizes ambient air flow around the sensor.

The enlarged top plate is 210mm in diameter and designed to provide shade for high solar angles for lower plates.

Meteorological shield is made of ASA plastic which is resistant to mechanical damage and UV radiation. ASA is UV stabilized, antistatic and very stable over time. New design and material of plates for high reflectivity, low thermal conductivity and maximum weather resistance.

Optimum shield design is a function of location and climatology and the parameters of the sensor inside the shield.

Climatological characteristics include maximum solar elevation angle, ground reflectance and probability of high radiation together with very low wind speeds.



