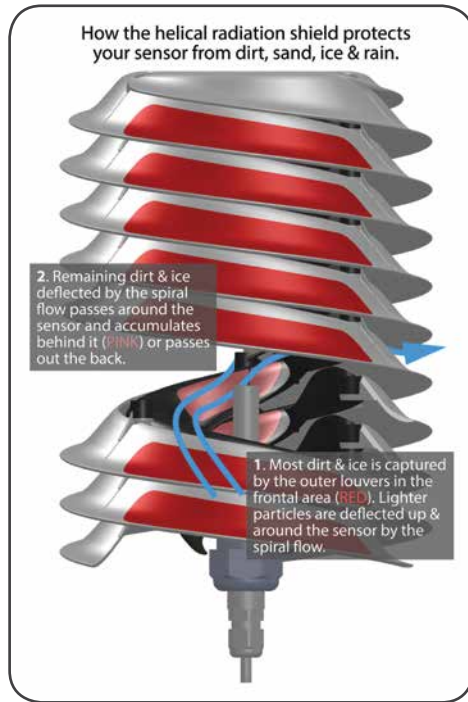


- AGRICULTURE
- HYDROLOGY
- METEOROLOGY
- SHIPS
- AIRPORTS
- INDUSTRIAL & PLC
- OCEANOGRAPHY
- SKI LIFT & SNOW MAKING
- BUOY & MARINE
- INTRINSICALLY SAFE
- ROAD MANAGEMENT
- SMART CITIES
- COASTAL
- IOT
- POLAR AND WINTER
- WEATHER STATIONS

## Temperature & Humidity



### MeteoShield - Professional

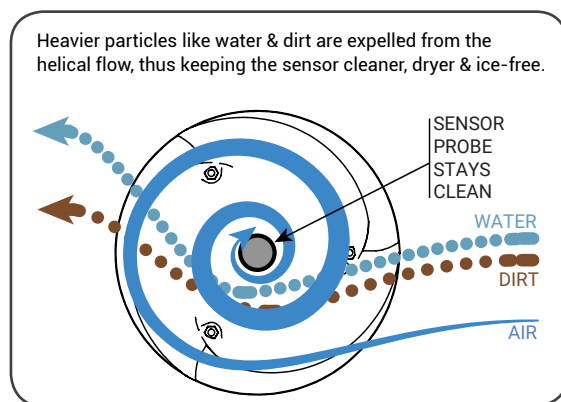
Naturally aspirated helical solar shield/screen. **Double-Helix shape eliminates temperature errors** from solar radiation more effectively than conventional multi-plate shields while offering unsurpassed **protection from the sun, dirt, rain, snow, sand & dust**. Double-helix increases clean air flow and rejects dirt particles away from the sensor, while keeping sensors cleaner than traditional multi-plate and fan aspirated shields.

**Especially well suited for harsh & extreme climates.**

- WMO compliant temperature, humidity and dew point
- Fast response due to high ventilation rate even without a fan
- Protection from water spray and sensor dirt buildup
- Highly accurate temperature & humidity measurement
- Exceptional water shedding and return to accuracy after rain
- Superb performance in high-reflectivity environments: snow, desert, city, marine...

**Higher reliability with better temperature accuracy than many fan-aspirated shields in tough environments**

## Keeps your sensors cleaner

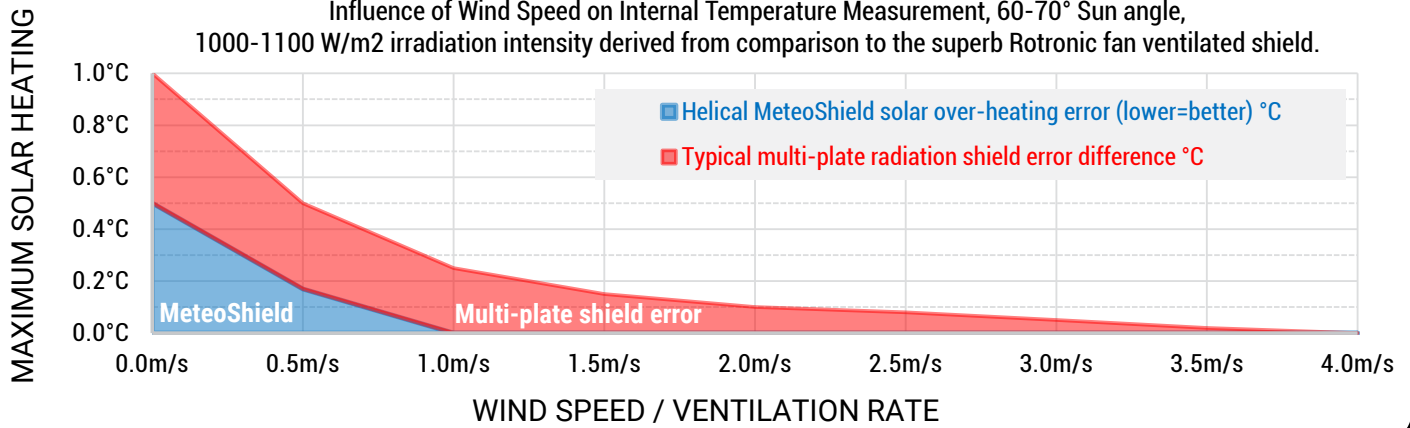


**Unbeatable combination of reliability and accuracy for critical applications where absolute temperature accuracy is important**

**UPGRADE TO HELICAL RADIATION SHIELDS**

**Helical MeteoShield SOLAR RADIATION ERROR**

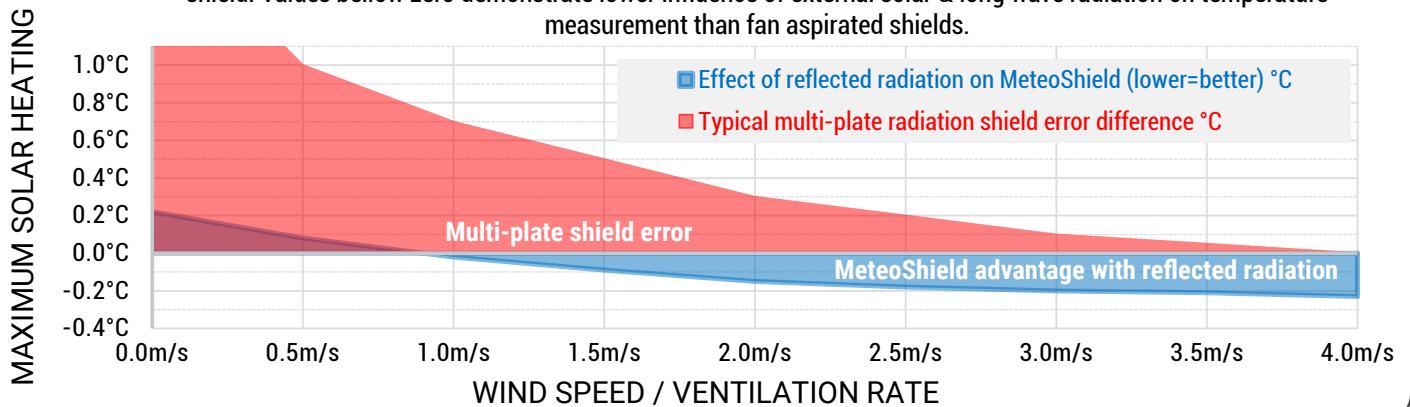
Influence of Wind Speed on Internal Temperature Measurement, 60-70° Sun angle, 1000-1100 W/m<sup>2</sup> irradiation intensity derived from comparison to the superb Rotronic fan ventilated shield.



MetoShield offers practically zero temperature error in >1 m/s wind conditions, which occur over 99% of the time. (blue)

**Helical MeteoShield REFLECTED RADIATION ERROR**

Influence of Snow (sand, water, ice, concrete) on Temperature measurement stability compared to a fan ventilated shield. Values below zero demonstrate lower influence of external solar & long wave radiation on temperature measurement than fan aspirated shields.



MetoShield offers better temperature stability & accuracy than fan aspirated shields in high reflectivity environments such as over snow, ice, water, sand or concrete as illustrated by lower solar heating compared to the reference fan aspirated shield. (blue)

**Independent Comparison Radiation Shield testing**

June 3, 2017 a windless day with high solar insolation (strong sun >1000W/m<sup>2</sup>)

