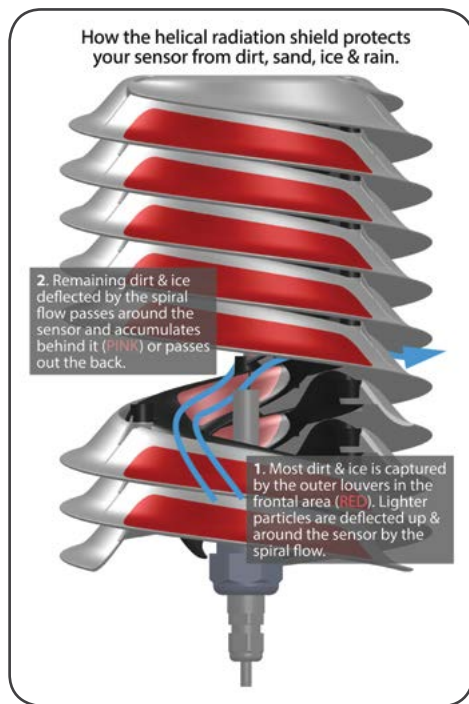




- AGRICULTURE
- AIRPORTS
- BUOY & MARINE
- COASTAL
- HYDROLOGY
- INDUSTRIAL & PLC
- INTRINSICALLY SAFE
- IOT
- METEOROLOGY
- OCEANOGRAPHY
- ROAD MANAGEMENT
- POLAR AND WINTER
- SHIPS
- SKI LIFT & SNOW MAKING
- SMART CITIES
- WEATHER STATIONS

## 3<sup>rd</sup> Generation features further improvements for snowy & desert climate extremes



## MeteoShield® Pro Gen 3

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.**

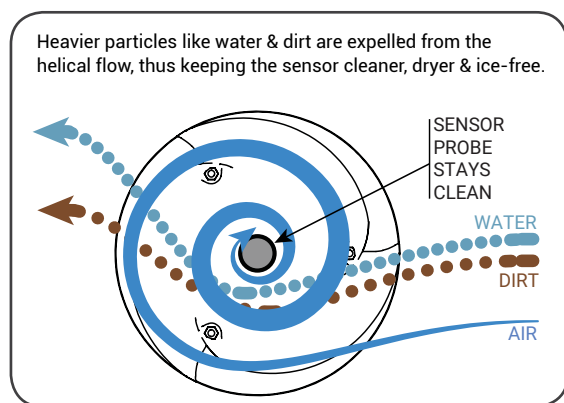
Double-helix increases clean air flow and rejects dirt particles away from the sensor, while keeping sensors cleaner than traditional multi-plate and fan aspirated shields.

Mean overheating 0.1 °C for >800 W/m<sup>2</sup> wind <1 m/s

- All weather accuracy without requiring fan aspiration
- More accurate with lower measurement uncertainty than fan-aspirated shields
- WMO compliant temperature, humidity and dew point
- Protection of sensors from water spray and dirt buildup
- Exceptional water shedding and return to accuracy after rain
- Precision even in high-reflectivity environments: snow, desert, city, marine...
- Damage and impact resistant down to -80°C, UV resistant, salt water resistant.

## Higher accuracy and reliability than most fan-aspirated shields in all environments

## Keeps your sensors clean



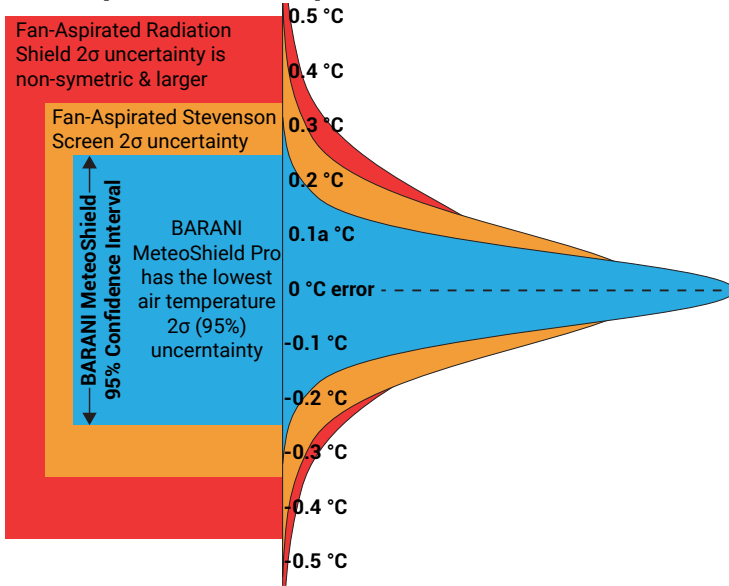
Best-in-class reliability and accuracy for critical applications where absolute temperature accuracy is important

# UPGRADE TO HELICAL RADIATION SHIELDS





### Atmospheric Air Temperature Measurement Error

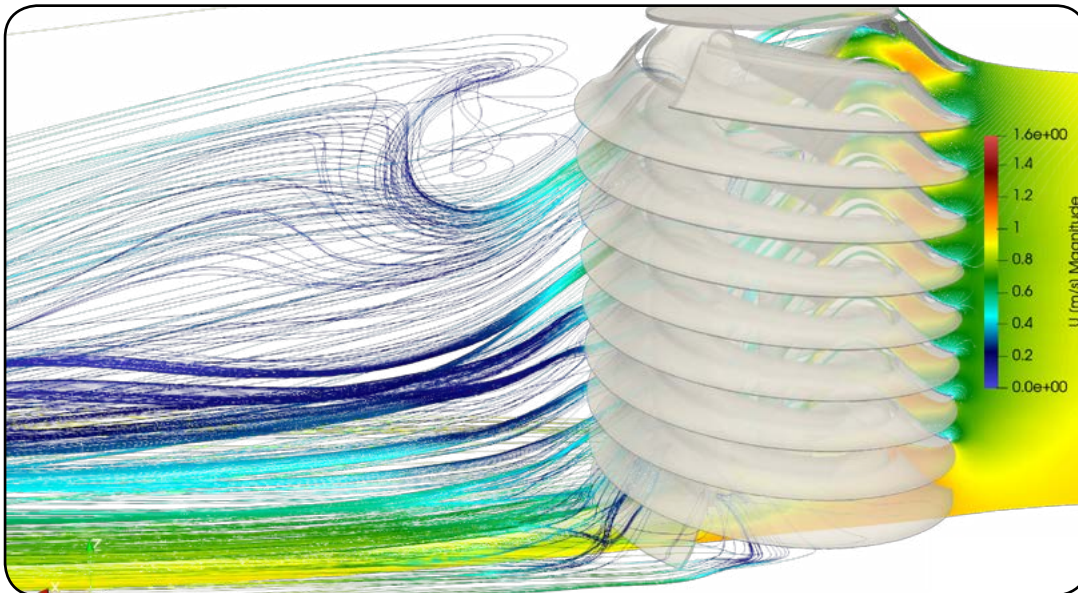


"Despite the fact that the (2015) BARANI shelters are not artificially ventilated, their performance is better than our artificially ventilated compact shelter."

"The (2015) BARANI helical shelters have shown excellent results with very limited heating under strong solar radiation. The mean overheating is as low as 0.2 °C for medium global solar radiation and low wind speed (<1 m/s).

It is unclear why the (2015 MeteoShield® Professional) overheating is lower for higher global solar radiation."

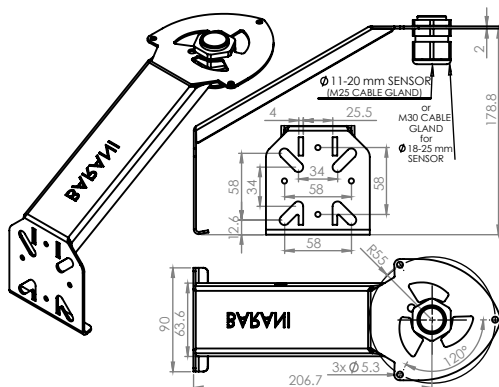
- quoted from an independent comparison by the Royal Meteorological Institute of Belgium



- **New generation 3 MeteoShield has 50% better accuracy than generation 2 & 66% better than the 2015 original**
- **Design based on WMO testing & user feedback**
- **Keeps sensors clean for lower maintenance**

### Universal radiation shield mount

2 mm white powder coated stainless steel



### Double-Helix Ventilation

Helical radiation shield shape ventilates better than multi-plate radiation shields while maintaining better temperature sensor protection from dirt, sand, dust, rain, snow and ice, thus extending sensor life and long-term measurement stability.

It performs better than many fan-ventilated radiation shields in high reflectivity environments.

