

- AGRICULTURE
- AIRPORTS
- BUOY
- COASTAL

- HYDROLOGY
- INDUSTRIAL & PLC
- INTRINSICALLY SAFE
- MARINE

- METEOROLOGY
- OCEANOGRAPHY
- ROAD MANAGEMENT
- POLAR AND WINTER

- SHIPS
- SKI LIFT & SNOW MAKING
- SMART CITIES
- WEATHER STATIONS

## Temperature & Humidity



### HELIX: 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. **More accurate than most fan-aspirated solar shields & screens.**

### MeteoShield - Standard

Optimized for applications where maximum sensor protection is required for **cost-sensitive** customers. Both Pro and Std shields are available in top & bottom mount versions. **Request custom height to fit any sensor.**



### MeteoTemp RH+T

**2-in-1** meteorological sensor probe with waterproof connector. **Temperature, Dew Point, Humidity and Frost Point**. Ultra-low  $\mu$ Amp power consumption **eliminates self heating** in Meteorological applications. Meets WMO requirements for accurate air temperature, humidity and long-term stability.

### MeteoTemp RH+T with Pressure

**3-in-1** sensor probe. Pressure plus **Temperature, Humidity, Dew Point and Frost Point**. Same reliable construction and accuracy as **MeteoTemp RH+T** plus a highly reliable sealed barometric pressure sensor.

*Both sensors feature a locking bayonet connector and 5m cable with mating connector and wire leads. Calibration per request.*

## MeteoWind 2 & MeteoWind Compact

Proven high accuracy and reliability. Superb dirt resistance offers **long-term measurement stability**.

MeteoWind 2 offers highest level of 3 stage lightning, EMC & surge protection with robust RS-485 / MODBUS RTU/ASCII output. MeteoWind Compact features analog output.

Flat elliptical cups offer superb snow shedding with very good hail resistance.

High accuracy of MeteoWind 2 exceeds **MEASNET & Class 1 requirements** for the wind resource assessment.

### Heated MeteoWind 2

**20 Watt body heater** extends measurement to polar, marine and extreme winter climates.

For **wireless & AWS installations** running on 12V, a manageable 5W of user or self-regulated heating is controlled by wind speed and temperature. Permanent installations on 24V generate 20W of heat for **highly reliable de-icing**.

Patented flat elliptical cup design offers superb accuracy and winter snow shedding even without heating.



## Wind Speed & Direction




**Coming Soon: Adapter with the following available sensor interfaces for all sensors:**

Pulse/Frequency (square wave)	<b>RS - 485</b>
0 - 2.5 V	RS - 422
0 - 20 mA	RS - 232
4 - 20 mA	<b>MODBUS ASCII/RTU</b>



weather map, portal &  
meteorological data cloud

EASY  
**MODBUS**  
VIEWER



**“Visually unique and of high quality,  
earning high scores in sensor  
comparison studies.”**

Reach your Gold Standard of measurement with BARANI sensors. ISO:9001 quality.

**BARANIDESIGN** is specialized in precise and reliable atmospheric measurement. Research & development focuses on achieving long-term stability of temperature, humidity and wind measurement. Sensors are designed for ease of use and interchangeability for easy on-site service. They are used in Meteorology & Climatology, Wind Energy, Aviation systems, Road Weather Information systems, Marine systems, Hydrology, Solar systems and Industrial systems.

**DIFFERENTIATE YOURSELF FROM THE COMPETITION.**