The most advanced naturally aspirated radiation shield technology
easy to set up | easy to service | easy to install | easy to clean

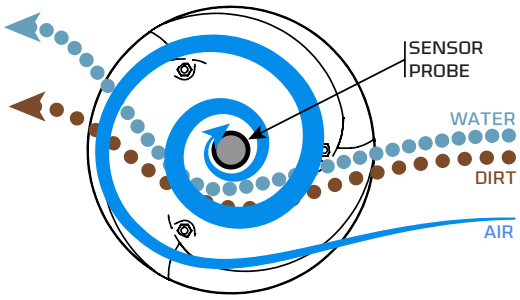
Vortex flow solar radiation shield

Patented radiation shield design creates vortex flow (similar to a mini tornado) which ventilates without a fan using only its helical shape. Advanced aerodynamic design techniques from the aerospace industry enable this highly compact design to achieve unprecedented levels of accuracy. Independent test results confirm only a 0.06°C average deviation against the standard WMO Stevenson screen shelter.

Benefits

- Very low heat rise due to vortex flow
- Fast response due to high ventilation rate
- Highly accurate humidity measurement
- Exceptional water shedding and return to accuracy after rain
- Protection from water spray and sensor dirt buildup
- Protection from sensor icing
- Meets marine environment requirements

WATER & DIRT, BEING HEAVIER THAN AIR, ARE EXPELLED FROM THE HELICAL FLOW, KEEPING THE SENSOR CLEAN & ICE FREE

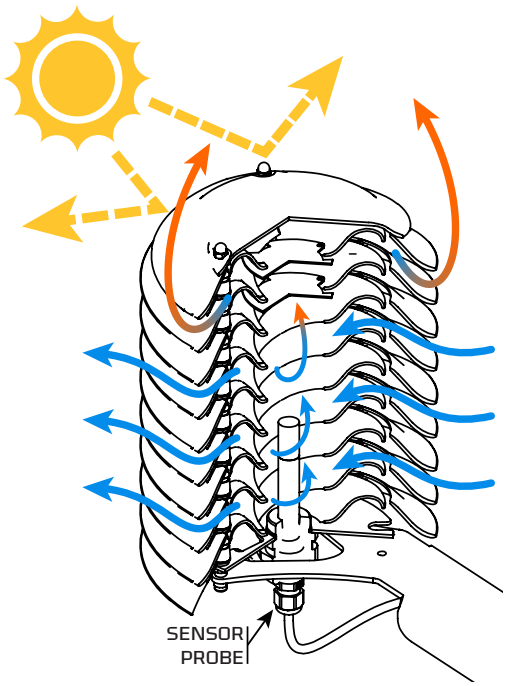


Unique Double Helix Shape

- Provides 360 degrees of protection for the sensor
- Prevents entry of direct and reflected sunlight at any time of the day, sunrise or sunset
- Protects sensor from sand, dirt, water & icing in all environments
- Significantly reduces sensor frost and icing in extreme winter climates

Robust Structure

- Hydrophobic UV resistant material minimizes dirt buildup and promotes water shedding thus maximizing long-term stability, durability and quality of measurements
- Accepts sensors up to Ø18mm (customization available)
- Bottom mounting on white powder coated stainless steel mount (see drawings) Top mount version also available on request
- Height customization available to cover all probes on the market



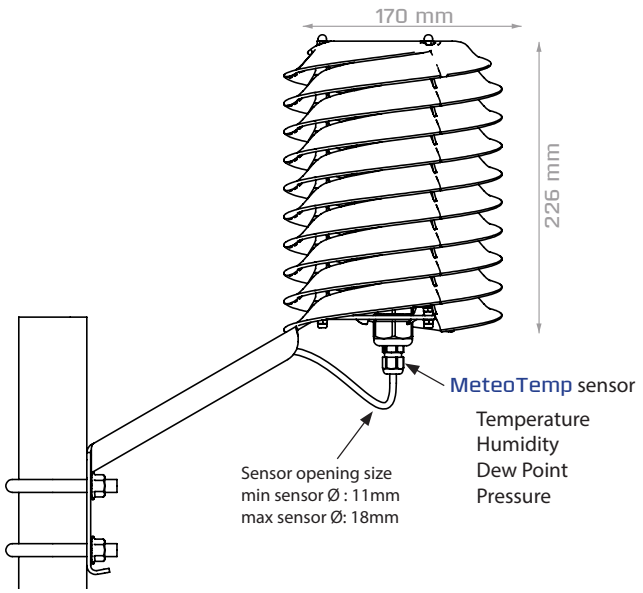
MeteoAir

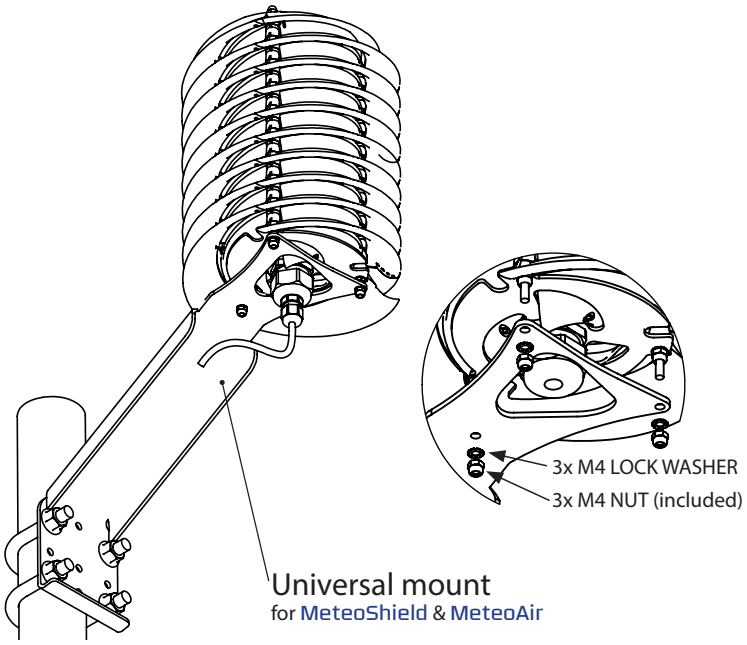
- WMO compliant temperature, humidity, dew point
- Best-in-class absolute temperature accuracy measurement
- Total measurement solution: MeteoShield with MeteoTemp
- Protection of sensor from sand, dirt, water & icing in all environments
- Reliable and easy to implement RS-485 MODBUS communication
- Superb lightning protection for the highest level of reliability
- Includes: barometric pressure sensor
- Ultra-low power consumption of 310 µA (micro-amperes)

Additional information

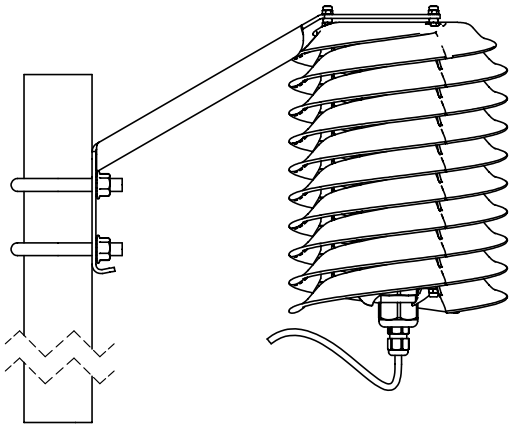
Sensor connection recommendations & MODBUS communication protocol: see MODBUS.

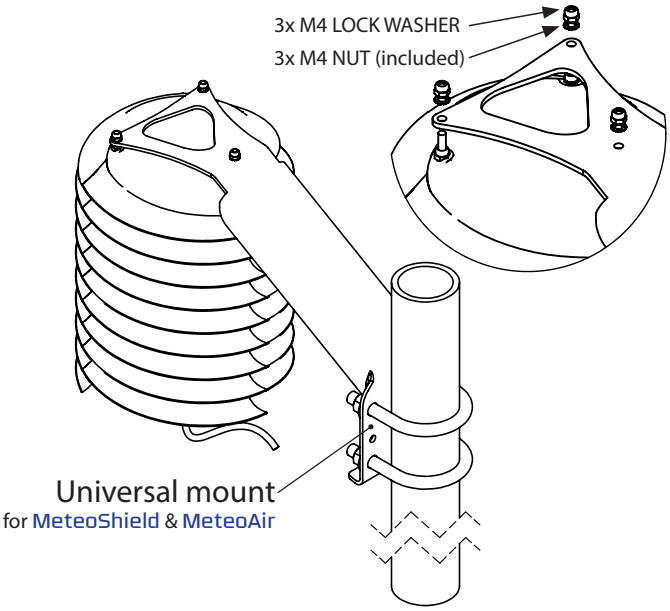
Bottom mount (default)

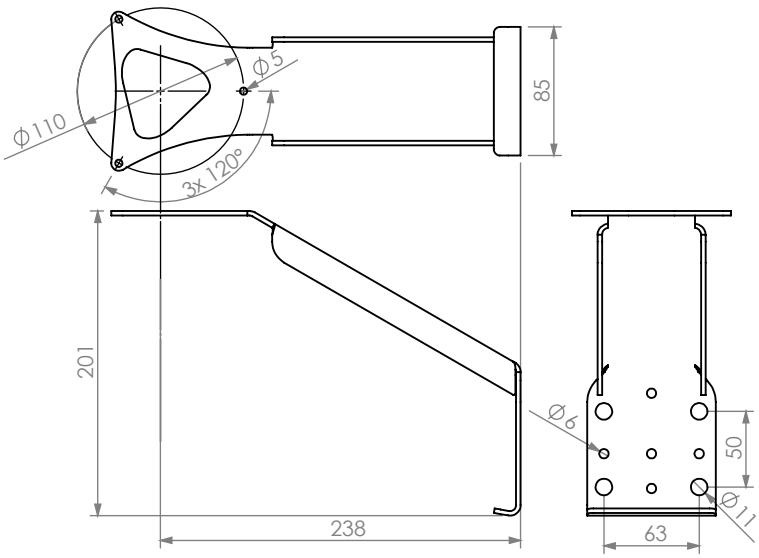




Top mount (special request)







MeteoTemp