

## MeteoRain® IoT Pro

Robust Class-A rain gauge  
with minimal maintenance



### Real-time rain data everywhere

Affordable and accurate wireless Class-A rain gauge for early warning of flooding due to heavy rain in all micro-climates is now a reality. Since severe rain and droughts are very localized, real-time local rain data is the only reliable actionable intelligence that can consistently save lives.

### Very minimal maintenance

Easy-maintenance and longterm reliable functioning even in vibrations from high winds are key factors for integration into early warning systems. Together with its true Class-A performance to World Meteorological Organization (WMO) standards set this rain gauge apart.

### Benefit from experience

To benefit from past experiences in decision-making requires consistent and repeatable data. For this, sensors with low maintenance and long-term measurement stability are required.

## MeteoHelix® IoT Pro

The standard of reliability  
for weather stations



### Extremely robust and WMO accurate

The wireless and connector-less **MeteoHelix® IoT Pro** is robust and delivers enhanced reliability in extreme weather. Unlike any other weather station, its helical design creates a robust interlocking structure to protect its WMO accuracy sensors for stable measurement in severe weather.

### Over 4,000 units worldwide

Benefit from the past 6 years of innovation from worldwide deployments of the only WMO conforming micro weather station. Known worldwide for its robustness and measurement quality, it can be found on all continents including Antarctica.

### Replace your complicated data loggers

Advances in LoRaWAN gateways using cellular connectivity, now enable installation of weather stations in areas of unreliable cellular or satellite coverage. Data logging LoRaWAN gateways can record data from 100's of wireless sensors within the surrounding 300 km<sup>2</sup> and store it for more than six months in case of cellular data network outages.

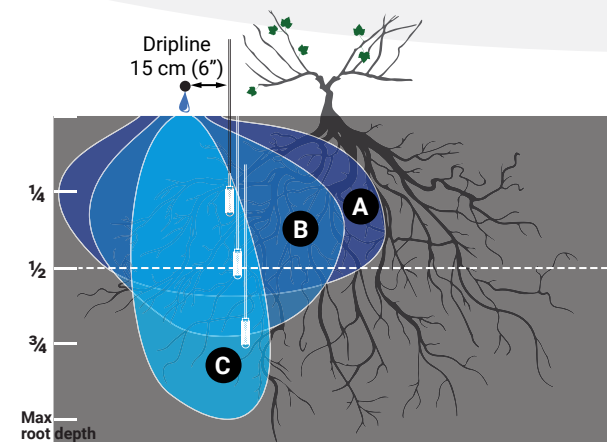
## MeteoAG™ sensor node

Accurate soil data from  
a simple, robust sensor node



### Soil data critical for flood prediction

Leveraging proven and widely available soil sensors, this solar-powered MeteoAG™ sensor node provides crucial data for drought and flood warnings. Its easy installation and seven sensor inputs for soil moisture, water tension, soil temperature, and leaf wetness allow real-time wireless transmission of critical information on soil wetness and saturation.



Soil moisture distribution from a drip line, based on soil type.

## **WBGT heat stress index**

### **Dual Black Globe Temperature (D-BGT) sensor**



#### **Heat stress early warnings for all**

Only the Dual Black Globe Temperature (D-BGT) sensor from BARANI is able to deliver accurate and consistent WBGT heat stress index warnings for humans of all races due to its ability to tailor output to suit all animal and plant physiologies.

#### **All BGT sizes including Ø15 cm BGT**

Ø15 cm Black Globe Temperature (BGT) is designed for human male workers. A Ø2 cm BGT is great for predicting burns in viticulture, while a Ø60 cm BGT is more suitable for heat stress of elephants in ZOO's.

#### **Wireless ease of installation**

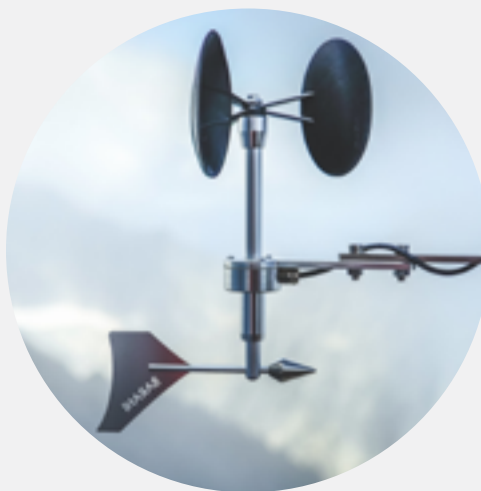
Reduce not only installation costs with wireless sensor solutions but also reduce maintenance costs. Wireless solutions allow installation of early warning sensors where it is beneficial for the end users, and not dictated by data-loggers.

#### **Actionable intelligence**

Decision-making requires repeatable data from sensors with low maintenance to maintain long-term measurement quality.

## **MeteoWind® IoT Pro**

### **Proven maintenance-free all-weather reliability**



#### **Precision in extreme weather**

Wireless and maintenance free from 5 - 10 years, the **MeteoWind® IoT Pro** has been proven and tested in the Caribbean, the Pacific and in most winter applications to deliver enhanced reliability in extreme weather over ultrasonic anemometers which suffer from data loss during heavy weather and are susceptible to bird damage. Exceeds WMO accuracy even during severe weather.



**IMPROVE YOUR MEASUREMENT STABILITY  
WITH BARANI WEATHER STATIONS.**



SCAN AND SEE OUR WEBSITE

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# **EARLY WARNING FOR ALL**

**SLEEP SOUND AT NIGHT WHEN  
PROTECTED BY MULTI-HAZARD  
EMERGENCY ALERTING**

**BARANI MICRO-WEATHER STATIONS  
ARE PROVEN TO RELIABLY DELIVER  
DATA IN EXTREME WEATHER IN ALL  
CLIMATES**

**FROM +56.7 °C DEATH VALLEY USA TO  
-41.4 °C IN CANADA AND ANTARCTICA.  
FROM INDONESIAN RAIN FORESTS TO  
THE DESERTS OF THE MIDDLE EAST,  
AFRICA, AND SOUTH AMERICA.**

