

WIRELESS WMO PRECISION MICRO-WEATHER STATION

Freedom to measure anywhere with WMO accuracy

WMO precision for temperature and humidity

Wireless & solar powered Robust & impact resistant



Professional WMO precision

Temperature, humidity, dew point, frost point and rain measurement

Stable long-term accuracy

3-in-1 sensor tip housed inside the helical MeteoShield® Pro offers long-term stability and low uncertainty of measurement

Accurate in all climates & weather

Housed in a MeteoShield® Pro for accurate measurement in all weather conditions and a high level of protection to the sensors

Easy calibration procedure

Traceability is assured by a removable sensor tip which is interchangeable and can be easily calibrated with a calibration adapter or replaced

View & export live weather data

allMeteo® Web portal enables easy world-wide view of your weather station data including data export, API data access and live data view. It also offers the ability to manage your fleet of weather stations.

MeteoHelix® micro weather stations

Exceeding WMO accuracy standards has never been so easy and affordable.

Designed for measurement precision and ease of use, MeteoHelix IoT weather stations offer professional research grade accuracy meeting World Meteorological Organization standards.

Unique measurement properties of the patented double-helix design make this weather station highly resistant to long-term sensor drift and sensor measurement errors from the sun and other environmental factors.

This helical micro-weather station is the perfect choice for climate research in tough measurement environments.

Available in SigFox and LoRaWAN.

allMeteo® portal for data display and configuration.



(-45 to 65 °C) per y RH @ 0-65 °C <0.2 ° resis ±0.8 % per y	.03 °C r year 2 %RH r year	0.01 °C 0.2 % RH	-45 °C65 °C	With cold weather battery -45 °C65 °C or -33 °C 0100 % RH	5-30 s 8-40 s	yes
resis ±0.8 % per y		0.2 % RH	0100 % RH	0100 % RH	8-40 s	yes
lculated) -	-	0.1 °C	-45 °C65 °C	-40 °C65 °C (battery limitation)	8-40 s	yes
f daily total).5 % r year	1 W/m²	02000 W/m ²	-40 °C65 °C (battery limitation)	<1s	yes
`·		0.02 hPa (mbar)	3001100 hPa	3001300 hPa	0.1 s	yes
eteoBain 200 Rain d			4915 mm per hour @	, ,	Rain rates up	yes
-	a (0 to 55 °C) 0.5 l 1100hPa) y eteoRain 200 Rain	1100hPa) year eteoRain 200 Rain gauge	a (0 to 55 °C) 0.5 hPa per year 0.02 hPa (mbar) teoRain 200 Rain gauge 0.10.5 mm Rain	a (0 to 55 °C)	a (0 to 55 °C) 0.5 hPa per year 0.02 hPa (mbar) 3001100 hPa 3001300 hPa teoRain 200 Rain gauge 0.10.5 mm Rain 4915 mm per hour @ Rain gauge	a (0 to 55 °C)

Sampling rate is 10 seconds per WMO requirements.

* T63 % sensor response time listed is with a filter cap. Response time with filter cap will vary based on cap porosity, material and fluid (air) flow.

In applications where sensors are used in wet, dirty and dusty environments, we recommend regular inspection of filter cap cleanliness to maintain long term accuracy. Inspection interval should be determined by application and user experience in their application environment.

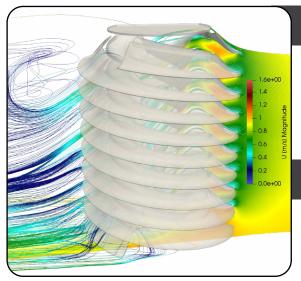
RUGGEDNESS AND PRECISION FOR THE PROFESSIONALS, EASY TO USE FOR EVERYONE.



MeteoHelix® IoT Pro



Electrical specifications of sensor					
Wireless communication	Available versions: Sigfox, LoRaWAN, (NB-IoT coming soon)				
Supply voltage	Solar powered with internal Li Ion battery for 4+ months of operation without sun				
Power on/off	Magnetically activated on/off switch located in sensor head				
External connections	4 meter cable interface for pulse output rain gauge sensors				
Environmental rating of sensor					
Operating temperature & humidity	-33 °C to +65 °C or (-45 °C to +65 °C with cold winter battery)	0 % to 100 % RH			
IP - Protection rating	IP65W (DIN 40050) Protected from dust and weather				
General specifications					
Dimensions	Diameter = 170 mm, Height = 226 mm				
Weight (mass)	1.2 kg (2.0 kg including stainless steel holder)				



A weather station inside the MeteoShield® Progen3

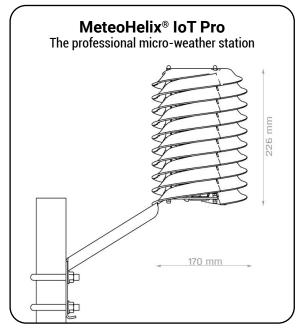
Naturally ventilated helical solar shield/screen. **Double-Helix shape eliminates** temperature errors from solar radiation more effectively than conventional multiplate shields while offering unsurpassed **protection from the sun, dirt, rain, snow, sand & dust**. Double-helix increases clean air flow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

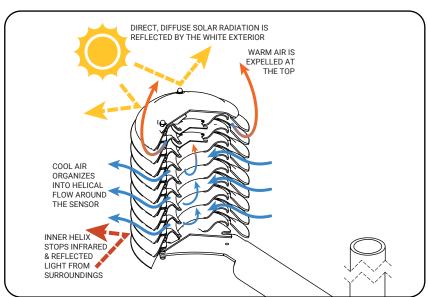
Benefits of the MeteoShield's double-helix shape

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.

BENEFITS:

- 1. Extend sensor life.
- 2. Increase precisin and long-term measurement stability
- 3. More accurate than any other weather station in high-reflectivity environments such as over snow, water, pavement and in cities in Smart-City applications.





Reach your gold standard of measurement with BARANI DESIGN ISO:9001 quality