



Sensor specifications

Microclimate sensor

Wireless sensor measuring temperature and humidity. It calculates Dewpoint (°C), Absolute humidity (g/m³), Humidity deficit (g/m³), and Absolute difference between temperature and Dewpoint. The Barani Design MeteoShield Pro has been specifically designed to withstand radiation from the sun or artificial lighting.

Specifications

Operating conditions	Temperature	-40 to 70 °C
	Relative Humidity	up to 100% non-condensing (recommended from 20 to 80%)
Structural	Dimensions (d x H)	Sensor: 145 x 20 mm Meteo shield: 226 x 170 mm Mounting bracket: 210 x 170 x 260 mm
	Weight	Sensor: 150 g Meteo shield: 740 g Mounting bracket: 750 g
	Mounting options	Meteo shield can be mounted with bracket as wall mount, standing mount or hanging mount.

Measurement specifications

Wind speed	Range	0 to 30 m/s
	Accuracy	3%
	Resolution	0.01 m/s
Wind direction	Range	0° to 359°
	Accuracy	±5°
	Resolution	1°





30MHz Connect

Every 30MHz sensor is powered by the Connect. It acts like the middleman between the sensor and the platform. This casing protects the electronics from greenhouse environment like moisture, dirt, and changing climate conditions.

The connect comes with a universal mounting bracket.



Specifications

Operating conditions	-10 to 55 °C (10 to 45°C while charging)
Dimensions (L x W x H)	Case: 183 x 113 x 107 mm
	Mounting bracket: 165 x 210 x 205 mm
Range	Indoors from 200 to 400 m (depending on Greenhouse layout)
Power source	Rechargeable battery (duration dependent on the sensor connected)
Protection	Water and dust according to IP67

