



## Meteo Station WS2

### Connectivity Solution for IoT



## Multi-purpose Meteo Station

### General Description

*The Meteo Station WS2 is a device made specifically to help the management of a large variety of crops with a set of certified sensors. The whole system can be powered by a battery or via external supply, for example by a solar panel. The installation is extremely quick and easy, and it doesn't require any cable connection. Examples of measurements that can be made are rain precipitation, environment temperature and humidity, leaf wetness, solar radiation, wind speed and direction, terrain humidity. Other kind of sensors can be connected to the system using the available busses: RS485, RS232, SDI12, 0..10V, 4-20 mA. The measuring instrumentation is mounted on-demand, so each station can be provided with the best set of sensors that better suits your needs. The low power consumption allow the device to be powered by a battery that can last several years.*

*The communication is based on the LoRaWAN or NB-IoT network.*



## Technical Features

Network	LoRaWAN™ or NBLoT	
Frequencies	LoRaWAN™: Worldwide regional parameters NBLoT: European frequency plan	
Network Protocol	LoRaWAN v1.0.2	
Battery	3.6V, 19Ah lithium-thionyl chloride (Li-SOCl <sub>2</sub> )	
Temperature and humidity range	-40°C < Temperature < +85°C 0% < Relative Humidity < 100%	
Temperature working range	-40°C < Temperature < +85°C	
Antenna	Helical antenna with SMA connector	
Power supply	External power supply 10-24Vdc or 10-24Vac	
Consumption stand-by	Typ. 10uA	
Dimension	43x 56 x53,5 cm	
Reference standards	2014/53/UE (RED)	
Bus	RS485, RS232, SDI12	
Inputs	<ul style="list-style-type: none"> <li>• two optoisolated digital inputs</li> <li>• two non-isolated digital inputs</li> <li>• one 0-10V input</li> </ul>	<ul style="list-style-type: none"> <li>• Two 0-5V or 4-20mA inputs (configurable)</li> <li>• three 0-3V inputs</li> <li>• Microvoltmeter input for pyranometer</li> </ul>
Default transducers	<ul style="list-style-type: none"> <li>• Accelerometer</li> <li>• Barometer</li> <li>• rain gauge</li> </ul>	<ul style="list-style-type: none"> <li>• leaf wetness sensor</li> <li>• GPS (only present in NBLoT stations)</li> <li>• External temperature and humidity</li> </ul>
Other features	<ul style="list-style-type: none"> <li>• Step by step relay</li> <li>• Solar panel</li> </ul>	<ul style="list-style-type: none"> <li>• Internal temperature and humidity</li> <li>• Modbus master</li> </ul>