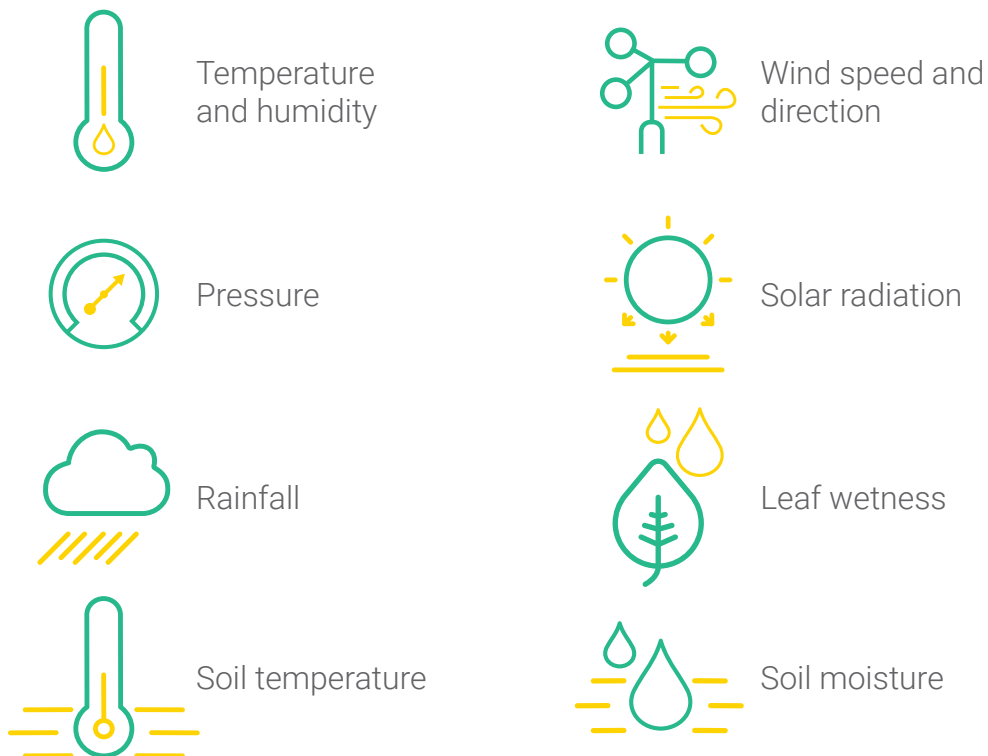




METEOTREK™ SYSTEM

Hardware and software system intended for collection, analysis and visualization of meteorological information, weather prediction and risk assessment of plant diseases

PARAMETERS MEASURED:



METEOTREK™ weather stations work 24/7 and are fully autonomous. The power is generated by a solar panel, and in the absence of sunlight – from the built-in 12 V battery

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Main Unit specification

Options	Specifications
Power	5W solar panel 12 V, 1,3 A/h battery
Consumption current	≤ 0,3 A
Input	4-20 mA interface 0-110 mV DC voltage signal I ² C interface discrete impulse signal
Accuracy converting input signals	no more than ± 0,2%
Output	GPRS-GSM 900/1800 standard in mobile networks, the data transfer protocol Bitrek
Battery full charge time	8 hours a clear sunny day
Continuous work time using a battery (with the sensors connected)	at least 72 hours under the following conditions: - transmission of measurements from the primary converters to the main unit – four times per hour - transmission of measurements from the main unit to external devices – eight times a day
Operating temperature range	-40° to +60° C
Humidity	up to 100% without condensation
Dimensions (L x W x H)	200 mm x 120 mm x 75 mm
Weight	1,2 kg



WEATHER STATIONS HAVE MODULAR STRUCTURE SO USERS HAVE OPPORTUNITY TO SELECT ONLY NECESSARY EXTENSIONS. ADDITIONAL SENSORS CAN BE INSTALLED LATER



STANDARD EQUIPMENT:

- Power supply system (solar panel + battery)
- Data processing and transmission system (main controller with GSM modem)
- Temperature sensor
- Humidity sensor
- Pressure sensor
- Wind speed sensor
- Wind direction sensor
- Rainfall sensor
- Soil temperature sensor
- Soil moisture sensor
- Sensors mounting kit



ADDITIONALLY:

- Leaf wetness sensor
- Solar radiation sensor

Note: temperature and humidity sensor, high accuracy temperature sensor and pressure sensor all have single housing