MeteoSense 2.0

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MeteoSense 2.0 belongs to the new generation of professional weather stations, combining high reliability and unsurpassed performance. Real-time data gathered from sensors are transmitted using reliable GPRS technology, and accessed worldwide through the simple, intuitive Netsens LiveData web interface, using any mobile or desktop device.

Wind sensor:
Average speed/gust, Wind direction

Leaf wetness:
Upper and lower leaf wetness

Solar radiation:
Visible, PAR and UV

Air temperature and humidity:
High precision digital sensor, with solar shield. Dew point calculation

Main unit:
Outdoor housing, embedded GPRS modem, SD card slot, internal electronic battery charger

Rain collector:
Cumulated rain and rain event indication

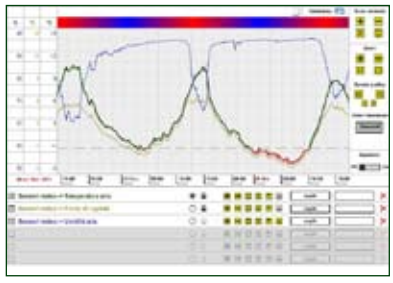
Solar panel:
Integrated high efficiency solar panel powering

Hardware:
Steel and aluminum mounting pole and hardware.

Soil sensors:
Up to 4 digital soil moisture and temperature, or soil conductivity sensors

Access your data in real time from any desktop, notebook, smartphone or tablet, using a powerful user interface

Dynamic report generation with various format data export

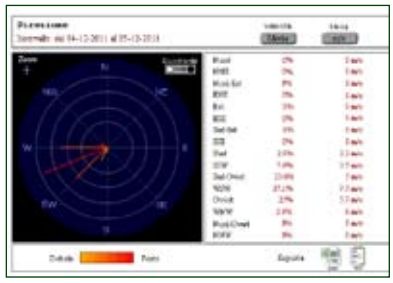


Graphical sensor data representation with "zoom" and multi channel display

How it works:

Data are sent in real time to Netsens LiveData center, and can be accessed using a standard Internet connection, from any laptop, notebook, smartphone or tablet.

Our **LiveData** software platform displays all data in a clear and intuitive way; Netsens offers "turn-key" solutions including the SIM card (available in most of the Countries), thus resulting in less complexity and lower cost to the Customer.



Wind direction analysis with polar diagram representation

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Technical specification

Communication interface: GPRS quadriband / LAN / RTU Modbus
Connectivity mode: "Always on", TCP/IP protocol (GPRS and LAN)
On board memory: SD Card slot
Local communication interface: USB
Display: alphanumeric LCD 4 characters
Power supply: 12 VDC, or 220 VAC with external adapter
Electronic battery charger integrated, for solar panels
Power consumption: < 1W with GPRS connection active
Battery operation: up to 50 days without external recharge
Environmental protection: IP 56

Sensors specification

Wind sensor
Wind speed: 1-67 m/s, accuracy 5%
Direction: 0-360°, accuracy 7°

Rain collector
Resolution: 0.2 mm
Principle: tipping bucket

Thermo-hygrometer
Temperature: -25 +85 °C, accur. 0.5°C
Humidity: 0-100 %RH, accuracy 3%
Dew point calculation
Solar shield included

Soil moisture and temperature
Accuracy: 2%
Measuring range: from 0% to saturation
Operating range: - 40 + 60 °C
Up to 4 sensors on the same station

Barometric pressure
Measuring range: 500 - 1100 hPa
Accuracy: 0.4 hPa (-10 to +70°C)

Soil conductivity (EC):
Measuring range: 0 to 15 dS/m
Operating temperature: 0 to +50 °C

Leaf wetness sensor
Two output channels (upper and lower leaf side)
Measuring range: 0 – 100 %
Operating range: - 40 + 60 °C

Solar radiation sensor
Visibile radiation: 0-1800 W/m2
Accuracy: 5% FS
Operating range: -40 +65 °C

Also available: First class and Second class pyranometers, PAR, UVA/UVB

Installation tools

Installation pole: mounting pole with full installation kit, including sensor tools.
Solar kit option: solar panel with sealed, rechargeable battery and outdoor steel housing.
Power supply option: 110V/220V external power adapter. Optional back-up battery.

Check the installation video

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Made in Italy
Since 2004

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