MeteoSense 2.0

netsens

The new **MeteoSense 2.0** represents the next generation of weather stations, combining high reliability and unsurpassed performance.
Real-time data gathered from sensors are transmitted using reliable and well proved GPRS technology and accessed worldwide through the simple, intuitive and effective LiveData platform, Netsens' solution to the need of data rendering.

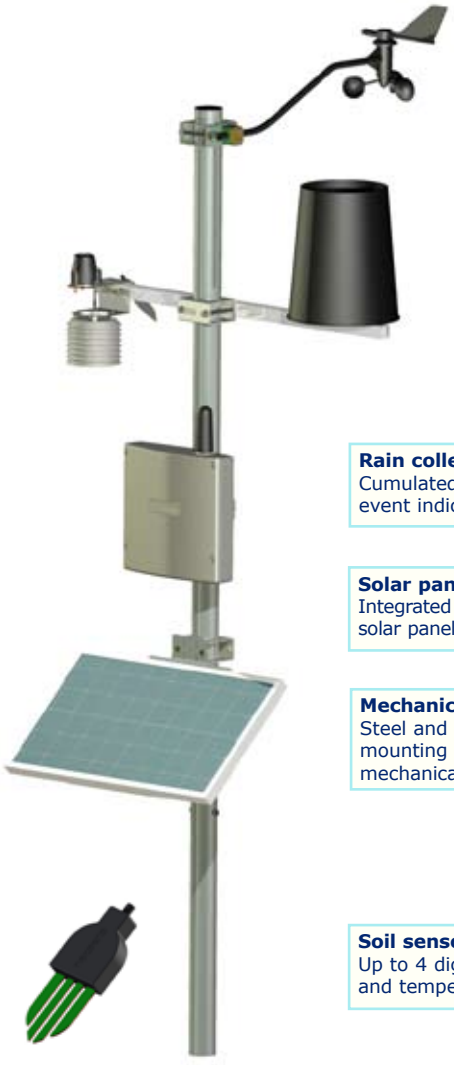
Wind sensor:
Average speed/gust, Wind direction

Leaf wetness:
Upper and lower leaf wetness

Solar radiation:
Visible and UV radiation

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.



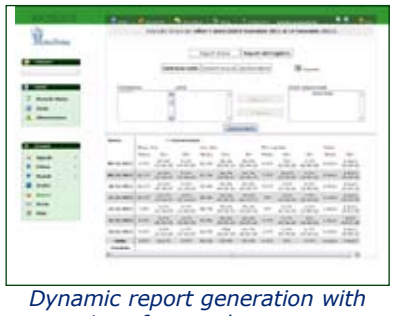
Rain collector:
Cumulated rain and rain event indication

Solar panel:
Integrated high efficiency solar panel powering

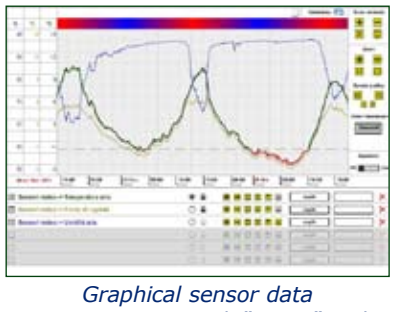
Mechanics:
Steel and aluminum mounting pole and mechanical parts

Soil sensors:
Up to 4 digital soil moisture and temperature sensors

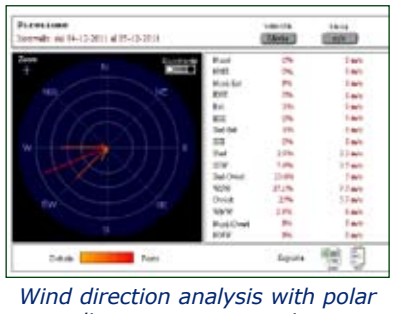
Access your data in real time from any desktop, notebook, smartphone or tablet, using a powerful user interface



Dynamic report generation with various format data export



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



Wind direction analysis with polar diagram representation

How it works:

Thanks to GPRS technology, data are sent in real time to Netsens service center, and can be accessed by Customers 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 (already configured), thus resulting in less complexity and lower cost to the Customer.

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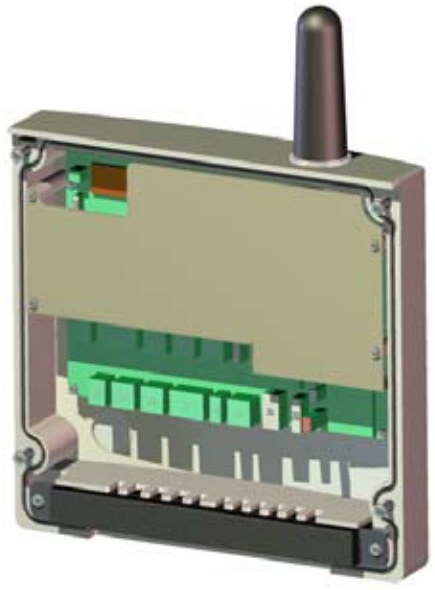
Technical specifications



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, 230 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 specifications

Wind sensor
Standard version:
Wind speed: 1-70 m/s, accuracy 5%
Direction:0-360°, accuracy. 7%
Professional version:
Wind speed: 0.5-75 m/s, accuracy 1%
Direction:0-360°, accuracy 4%

Rain collector
Resolution 0.2 mm
Principle: tipping bucket

Thermo-hygrometer
Temperature: -40 +60 °C, accuracy 0.5°C
Humidity: 0-100 %RH, accuracy 3%
Dew point calculation
Digital output
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

Leaf wetness sensor
Two output channels (upper and lower leaves)
Power supply: 3-5 VDC
Measuring range: 0 – 100 %
Operating range: - 40 + 60 °C

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

Installation tools

Installation pole: modular mounting pole with full installation kit, including sensor tools.
Photovoltaic kit: solar panel with mounting accessories. rechargeable battery with outdoor steel housing.
Power supply: optional 220V external power adapter.

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QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001

CE

RoHS Compliant

Since 2004
Made in Italy

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