



Weather station

WEATHER STATION FOR FORECAST, TEMPERATURE, AIR PRESSURE, HUMIDITY, WIND INDICATOR, RAIN COLLECTOR

The weather station is a **multifunctional instrument** ideal for detecting precisely the direction and speed of wind, temperature, relative humidity, rainfall and atmospheric pressure.

Feature

- › **SENSOR TYPES** (inner and/or outer): thermometer, barometer, pluviometer, weather forecast, lunar cycle, hygrometer, anemometer, wind direction
- › **WEIGHT:** between 0,5 and 2 kg
- › **MONITOR:** full color or black and white (6,4" x 0,7" x 5,3")
- › **WI-FI:** 2,4 GHz/802; range: between 100 and 300 m
- › **BATTERY:** solar energy or battery-operated
- › **STORAGE:** Historical trends up to 500 days earlier

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PRICE: 120.00 – 160.00€

Parole chiave

CITIZEN SCIENCE

ENVIRONMENTAL EDUCATION

STEM - Science, Technology, Engineering and Mathematics

How it works

By **graphing and data collected over 12 or 24 hours**, it can be useful for monitoring the outdoor (or even indoor) temperature and humidity, wind speed and direction, rainfall data, barometric pressure, and dew point. Additional useful functions also include lunar cycle and perceived temperature.

Given the growing need to learn how to prevent, manage and cope with extreme weather events, this tool can make itself **a vehicle for technical and scientific studies supported by the contribution of non-expert but enthusiastic citizens who have been equipped with these devices**. In addition, in activities with children and youngsters, it can be useful in developing and improving qualities such as curiosity, the ability to observe, evaluate data and draw conclusions, and communication (if asked to present research results).



Best practices

It can be the focus of **collaborative studies with inexperienced citizens** to understand and test climate change in long-term projects that involve them closely in multiple encounters.

Another example of use could be **to propose to a class the use of a weather station to monitor together with students the different weather conditions around the school** or, if present, in the school garden by moving the station to different areas: near the trees it will be cooler, in a paved area it will be warmer.

This can lead to a **discussion about space design** and how it affects the weather and livability of places.

Learn more about



WEB

- › <https://www.cimafoundation.org/news/il-monitoraggio-e-la-previsione-degli-eventi-meteorologici-il-contributo-della-citizen-science/>
- › <https://www.domoticafull.it/migliori-stazioni-meteo/>
- › <https://www.infoclimat.fr/fr/cartes/observations-meteo/temps-reel/temperature/carte-interactive.html>



VIDEO

- › <https://www.youtube.com/watch?v=Ml8cVGyE8V0>
- › <https://www.youtube.com/watch?v=WO7f1mXuWe4>