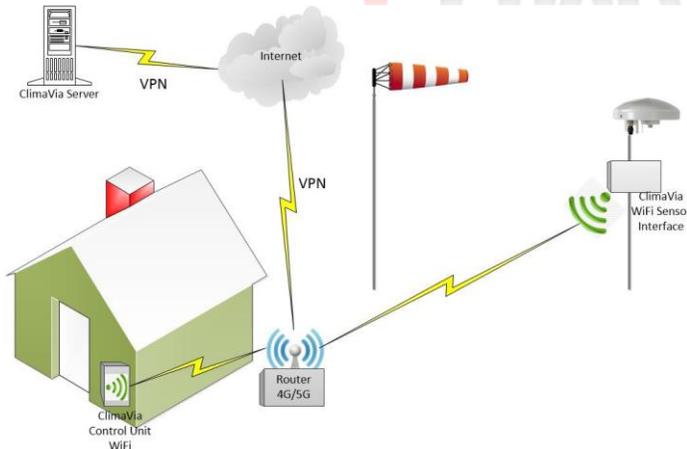




CLIMA-VIA



CLIMAVIA is an urban and aerial mobility aid system that has two versions **CLIMAVIA-URBAN** and **CLIMAVIA-AERO**. It is aimed at:

- to Public Administrations that intend to have greater awareness of the environmental and climatological conditions .
- to Aero / Helipad managers and General Aviation pilots to learn about the meteorological environment on the operation area.

CLIMAVIA is based on sensors that detect, in a timely manner and with high frequency, some

meteorological and environmental quantities in order to have a climatological-environmental picture of a point using sophisticated algorithms specific to the individual versions.

CLIMAVIA-URBAN version provides for a wide diffusion of low cost control units scattered throughout the urban area. This allows you to have a high amount of point data observations on an area and therefore to obtain a result that is certainly more precise and available, greatly expanding the coverage of the monitored environment.

CLIMAVIA is to be considered complementary to both the current criterion in use in urban areas based on limited detection stations distributed in strategic positions in the urban area, and national meteorological surveys that refer to stations located outside the urban area. These findings are very often completely different from those found within cities, and therefore relatively significant for the purposes of urban effects on human health.

CLIMAVIA-AERO version allows you to evaluate and provide all the weather parameters supporting the aerial activity for the Aero / Helipad area. The information is published in real time on a local video at the AirSurface. This information is published on a website that for the AliNettuno Airsuperficie can be viewed at:

https://www.climavia.city/CLIMAVIA_Ali_Nettuno/pmv.php.

On this website it is also possible to view the images taken by cameras aimed at the two runway thresholds. Furthermore, a site has been created, which can be consulted via mobile web by the pilots, to obtain all the necessary and sufficient information to know the local weather situation. This site, for the AliNettuno airsurface, can be consulted at the link: https://www.climavia.city/CLIMAVIA_Ali_Nettuno/snap_pilota.php.

CLIMAVIA does not require infrastructure works to function, but only a pole and the power supply. **CLIMAVIA** is a system equipped with a single high-tech software, and is at low cost. The technology used by **CLIMAVIA** is able to detect measurements of:

- Temperature, Atmospheric pressure, Humidity
- Fog and mist risk
- Rain, risk of hail
- Wind, intensity, direction and gusts
- UVA and UVB solar radiation
- Particulate matter PM10 / PM2.5 (optional)
- NOX, SOX and COX (optional)

Patent pending



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CLIMAVIA records all the physical, weather / environmental quantities detected in a Data Base Server to allow the manager to carry out historical analyzes on the climatological conditions of each monitored point (see <https://www.climavia.city>).



CLIMAVIA also allows to



- Highlight on a cartographic map, in real time, the operating status of the sensors of each device and the individual weather / environmental quantities detected.
- Establish a secure connection from the Control Room to any peripheral device to check its functionality and / or modify its operating status.
- Report any equipment failures or power failure.
- Remote software maintenance and evolution.

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Patent pending