



# Wireless Docking Station

WDS is a compact sun-fueled platform providing power, communication and networking capabilities to environmental monitoring sensors and technologies.

WDS features a mini solar panel, a dedicated MPPT manager, a rechargeable battery, a battery management system (BMS), a Wi-Fi and a 169 MHz radio module, and a modular board architecture natively designed for delivering seamless remote monitoring capabilities in any type of setting, including hard-to-reach and off-grid locations.

WDS can simultaneously power anemometers, rain gauges, thermometers, irradiation sensors, flow meters, etc... and transmit monitored data on a real time basis in a seamless, cable free mode. In case of temporary connectivity fails all gathered data are saved in a local SD card and transmitted as soon as the connection is restored.

Each WDS can act as a repeater and network node, thus delivering enlarged area monitoring and smooth networking capabilities.



## Power and connectivity to your sensors

- ✓ Rugged, portable and compact
- ✓ Self-powered
- ✓ Easy to install
- ✓ Extremely low maintenance
- ✓ Usable under any weather conditions
- ✓ Customizable for different sensors and data transmission needs

### Extreme remote monitoring: Empowered

Environmental and meteorology observation are regularly performed for a variety of purposes, feeding information and Decision Support Systems (DDS) in sectors like aviation, agriculture, energy, marine, military, and transportation.

Thanks to its modular and customizable architecture, WDS effectively serves any type of environmental monitoring need, and is especially suited for application cases where the grid connection is not an option (remote and out-of-reach locations).

### Applications

All physical environment monitoring in different industries and application cases: weather forecasting, climate observation, agro-meteorology, precision agriculture; irradiation monitoring in PV plants; ...

WDS is a **sunto** proprietary technology.



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**sunto.**