



01 MONITORING
WITH SENSOR



02 DESIGN AND
REALIZATION OF
HARDWARE CUSTOM



03 DESIGN AND
REALIZATION
OF DASHBOARD OF
REMOTE CONTROL



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PHOTOVOLTAIC MONITORING SYSTEM



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CONTROL AND MONITORING

The OWAC Engineering Company has had the opportunity to develop its own monitoring system, which in addition to allowing the remote management and supervision of the photovoltaic system, allows the implementation of specific plant diagnosis algorithms aimed at controlling production performance and maximizing generated revenues. . the monitoring system allows a simple consultation of the production data of the plant via a web interface.

MAIN CHARACTERISTICS OF THE WEB MANAGEMENT PORTAL

- Customized communication platform for all PV systems (even with different inverters) that use system monitoring;
- Estimate of the ROI of the plant;
- No software to install on your PC;
- Simple and intuitive interface for consultation and the analysis of archived data;
- Immediate communication of faults and faults in the PV system;
- Personalized reporting.



MAIN FEATURES

- Communicate with different brands of inverter through industrial protocol or proprietary protocols;
- Acquire, memorize and process the production data of the plant;
- Analyze the yield of the plant and the efficiency of the photovoltaic modules;
- Determine the parameters of the weather stations present (module temperature, ambient temperature, irradiation, wind speed) and implement the insertion of additional environmental sensors using the appropriate inputs (for example to monitor the thermohygrometric conditions inside the electrical substations);
- Notify via sms and / or email any anomalies and faults of the system (possibility to customize the software by setting the type of alarm and any threshold values);
- Check and notify the alarms of devices to be connected directly to the system (switches, anti-theft panels, volumetric detectors, etc.)
- Control and control devices and equipment through NPN inputs for external relays of any size (air conditioners, air extractors, etc.)

