

SOFTWARE

PHOTOVOLTAIC MODULES MONITORING

SuiviPV ensures a **reliable operation of the installations**, optimizes the efficiency and guarantees the solar plant production.

Based on the **continual comparison** of the real solar production compared to the theoretical best production, SuiviPV identifies any possible operating faults and **improves the cleaning and maintenance operation**.

SuiviPV innovation is in the continual comparison between the real and the theoretical production data using **highly sensitive sensors** linked to an extensive computing algorithm.



BENEFITS

✓ Premium quality

- High grade industrial components
- Designed and built for harsh environmental constraints

✓ Easy to install

- Modular design directly adaptable to the existing photovoltaic
- Easy to connect

✓ Ensure the safety of the installations

- Control the current, voltage and temperature of each photovoltaic component
- Detect and determine every component operating fault
- Help the cleaning and maintenance operation

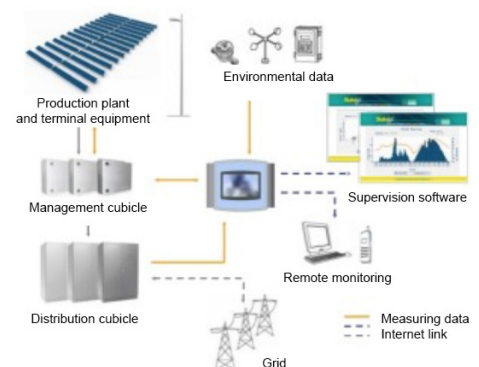
✓ Improve installations efficiency

- Control and measure the efficiency of each component
- Measure and report any difference between the real and theoretical data
- Avoid any deviation in functioning
- Ensure the remote monitoring

✓ Warranty

Designed and built with high grade industrial components, SuiviPV is warranted for 5 years by the Sirea group

General synoptic



Sirea, a company specialized in the field of industrial automation and electrical energy.

SPECIFICATIONS

Measurement sensor DC range

- Maximum DC voltage per string : 1000 V
- Current range. : 0-500 A
- Measured values : V / A / P / W
- Accuracy class : 0.2 to 1 % of the calibre
- Input : 12-60 VDC
- Connexion : screw-block

Measurement sensor AC range

- Maximum AC voltage : 500 V
- Maximum direct current : 80 V
- Maximum current by external TI : 2000 A
- Measured values : V / A / P / Q / F / Cos phi / W
- Accuracy class: 0,2 to 1 % of the calibre
- Input : 12-48 VDC, 230 VAC
- Connexion : screw-block

Environmental sensors

- Pyranometer
- Ambient temperature sensor
- Cell temperature sensor
- Anemometer
- Operating temperature : -25 to +70°C

Coordination box

- Input : 24 VCC
- 4 logic input for external switch
- 4 logic output by relay contact 1 x RT : 10 A

Monitoring and supervision software

- Functioning and efficiency monitoring
- Data graphic display
- Production report
- Alarm notification
- Web-based consultation

Remote monitoring

- Modem GSM / GPRS
- Alarm notification by SMS / e-mail
- Centralized monitoring and supervision
- Remote report

Options

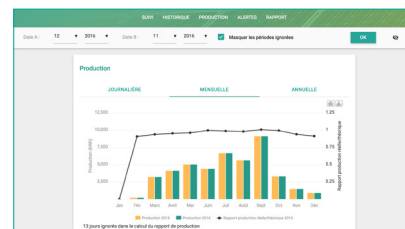
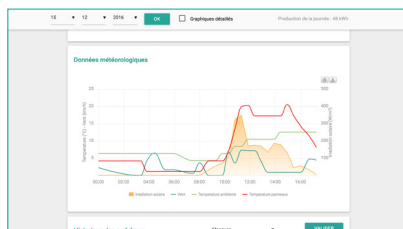
- Backup power
- Anti-theft protection
- Communication cable : double twisted pair shielded cable : 1 x 0,34 mm² and 1 x 0,22 mm²

EASY, MODULAR, UPGRADEABLE

The SuiviPV range of products offers a complete solution of control and monitoring for photovoltaic installations.

The high modular and reliable SuiviPV products can be installed on any type of new or existing photovoltaic installations and on any future extensions

The amount of supplementary equipment adapted to the SuiviPV range is unlimited and allows installation on any possible size or system configuration



Sirea, a company specialized in the field of industrial automation and electrical energy.

Sirea, 1 rue Jean Perrin
ZI de Mélou - 81100 Castres - France

Phone : +33 (0)5 63 72 93 92
Fax : +33 (0)5 63 72 93 19

www.sireagroup.com
contact@sirea.fr

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