



# Solar Plant Supervisory System

Complete monitoring and management system for small to large scale PV plants



### **Solar Plant Supervisory System - SPSS**

Benefits of SPSS for EPC companies and investors in the design, commisioning, operation and maintenance of a PV plant:

- 1) system optimization
- 2) fast and cost effective start-up
- 3) assuring maximum yield
- 4) effective maintenance throughout the plant lifecycle







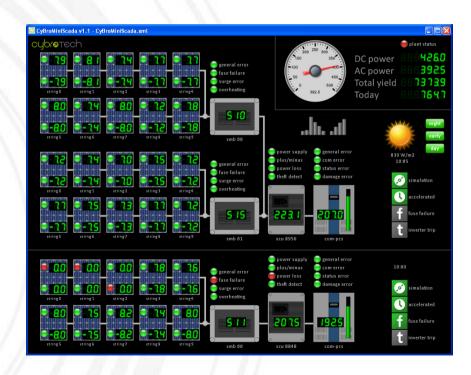
### 1. Reduce start-up time and costs

- Detailed on-line information from one central location
- Fast and easy location of faults
- Helps the project manager to systematically manage start-up activities

### Solar Mini your tool for fast and effective

start-up of a large PV plant

- Highly simple & compact installation
- Versatile design options
- Simple configuration
- *Web-box object*
- Unicode support
- Touch screen support
- Low resources usage



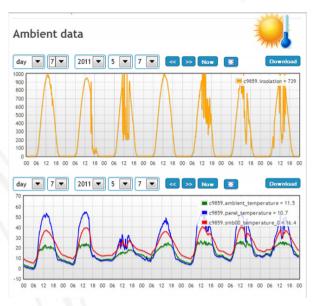


### 2. Run your PV plant efficiently

- Know exactly how the plant is performing
- Get on-line detailed information on PV production
- Control centrally all elements of the PV system

# **SPSS -** Reliable and efficient monitoring and management system:

- integrated view on all relevant parameters of the PV plant
- on line U/I measurements (high accuracy 0,5%)
- on line statuses on the string level
- get data from any invertor
- PV panels defects or pollution detection
- temperature monitoring inside and outside (string monitor boxes, inverter room)
- SQL database for evaluation
- vendor independent solution provider







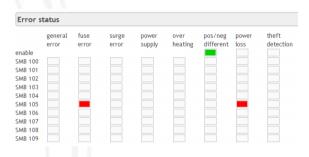
### 3. Support for efficient maintenance

- Get on-line detailed information on PV production
- Lower your maintenance costs with IT support
- Track the response times of maintenance service

# **SPSS** - reliable and efficient monitoring and management system:

- central and remote control
- Active messaging and alarming
- Log of alarms and statuses
- *Minimize on-site effort and resources*
- Get valuable information on working conditions for the equipment claims management!
- vendor independent solution







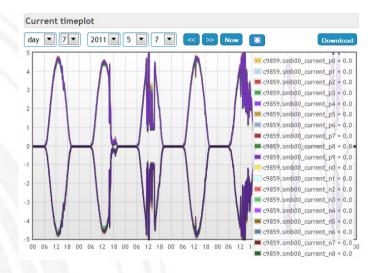


#### 4. Advanced algorithms for optimization

- Manage the operation of PV plant on the level of PV strings
- Assure the highest possible yield
- Improve the life-time asset management
- Guarantee the ROI for the investor

# **SPSS** - reliable and efficient monitoring system:

- Configurable positive-negative current difference with on-line monitoring
- String performance comparisons
- Earth leakage currents detection
- Cable deterioration monitoring
- Performance indicators
- ...



Error status								
	general error	fuse error	surge error	power supply	over heating	pos/neg different	power	theft detection
enable					_			
SMB 100								
SMB 101								
SMB 102								
SMB 103								
SMB 104								
SMB 105								
SMB 106								
SMB 107								
SMB 108								
SMB 109								



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