WEBDYN

WEBDYNSUNPM

The WebdynSunPM concentrator is used to monitor and control your photovoltaic installations by collecting, analysing and modifying your equipment parameters. Define your scenarios to modulate the power injected to the grid, optimise energy storage or manage your own consumption. A tailored standalone solution to monitor, control and optimise your photovoltaic installations.

INSTALLATION

– Simple and user friendly using the embedded web server and the configuration wizard.
– Local or remote installation for configuration or firmware updates.
– Simplified wiring (disconnectable terminal blocks)
– Problem solving using troubleshooting tools that make detection and solving easier

OPERATION

– Data collection
– The data is sent to one or two servers or locally backed up on a Micro SD card
– Real time alarms
– Simplified local or remote configuration and maintenance
– Power Management (Offloading, Power management, Autoconsumption, Storage, etc.)

STRENGHTS

→ 3 RS485/422 data buses (inverters, displays, Modbus slaves, etc…)
→ Compatible with commercially available inverters
→ Very low data consumption on mobile networks
→ 2 possible destination servers
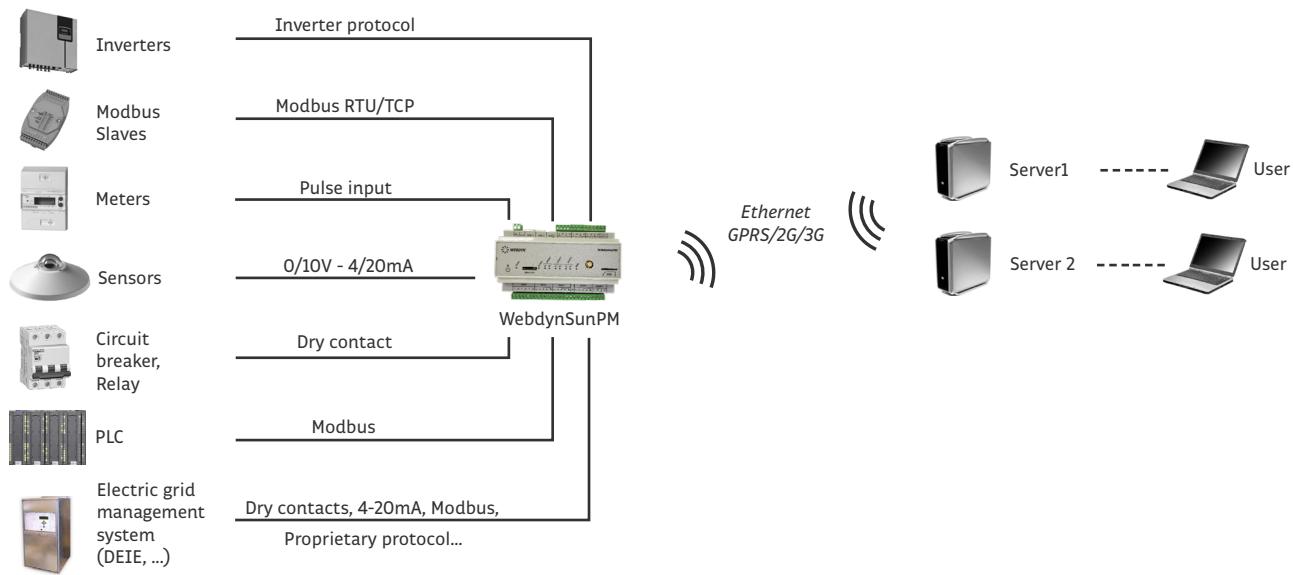→ Server redundancy
→ Power management

THE APPLICATIONS

→ Real time monitoring of electricity production and the installation
→ Local action automation (offloading, reduction of the reactive power, etc.)
→ Local or remote maintenance (alarm, troubleshooting, correction, etc.)

THE BENEFITS

→ All data is aggregated whatever the brands or types
→ Real time supervision and remote maintenance
→ Optimisation of production output
→ Data security

ARCHITECTURE

Inverters	Inverter protocol
Modbus Slaves	Modbus RTU/TCP
Meters	Pulse input
Sensors	0/10V - 4/20mA
Circuit breaker, Relay	Dry contact
PLC	Modbus
Electric grid management system (DEIE, …)	Dry contacts, 4-20mA, Modbus, Proprietary protocol…

WebdynSunPM

Ethernet GPRS/2G/3G

Server1 - - - - - - User
Server 2 - - - - - - User

SPECIFICATIONS

TECHNICAL

- Serial interfaces: 3 RS485/RS422 ports
- GPIO I/O interface: 4 analog inputs
  0/10V-4/20mA – 3 ON-OFF or pulsed inputs
  and 1 relay
- IP network interfaces:
  2 ethernet ports: 10/100Mbits/s
  GSM/GPRS/EDGE/3G Modem
  3G: HSPA (B1 and B8)
  2G: EDGE, GSM, GPRS (B1 and B8)
- 1USB port
- 1 Micro SD port
- 1 external aerial (SMA connector)

GENERAL

- Power supply: [+12-24V] DC
- Disconnectable screw terminal block)
- T°: operating: -5°C/+50°C –
- Storage : -20°C/+85°C
- Dimensions: 157x108x59mm
- Fixing: Din Rail
- Certifications:
  RED
  ROHS
  REACH
- Consumption: 4W maximum

MONITORING

- Inverters (possibility of managing over 200 inverters)
- Modbus RTU or TCP slaves
- Environment (sunlight, temperature, …)
- S0 pulse meters (Class A and B)
- Dry contact inputs (circuit breakers, break-in, etc...)
- Relays
- PLCs
- Electric grid management system (DEIE, etc…)

REFERENCES

PRODUCTS

- WG0517-A01: WebdynSunPM EMEA

ACCESSORIES

- AC0103-00: Power supply Din Rail 24V DC
- AC0201-01: Dual-band 5m aerial
- AC0201-03: Dual-band 10m aerial
- AC0201-02: Dual-band 20m aerial

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