

KEY BENEFITS

- Multi console&screen monitoring
- Graphical monitoring
- Graphical alarm warnings
- Equipment out-of-range alerts
- Monitoring of electrical & non-electrical parameters
- OPC interface layer
- Different user-access levels
- Continuous real-time monitoring
- On-demand data retrieval
- Alarm management & processing
- Cost monitoring & accounting
- Real-time load forecasting & trending for the battery-packs.

EQUIPMENT PROTECTION

Power is commuted by SSR-s (Solid State Relays). Spikes are completely avoided because the commutation is always made at exactly 0 volts.

LOWER MAINTENANCE COST

Having online data from your remote sites there is no more need to physically be there to see what's on or what happened on the site.

AWARE DECISIONS

Regardless where you are in case of a power failure you will receive a message... From now on you can plan your best recover action.

We "X" different...

Power Monitoring & Management System



About it

- Our **Power Monitoring & Management System** (PMMS) collects data from all the devices linked to your remote electrical networks, so you have in real-time accurate and system-wide supervisory information.
- Get better electrical power quality, optimize asset usage, and automate manual tasks in order to improve employee safety and productivity.
- Functionality like protection, metering, control, and condition monitoring lets you operate your power supply securely, reliably, and cost-effectively.
- You can monitor key operations in real-time and take immediate corrective actions as soon as those critical events occur (brown-out, black-out, out of the limit temperatures, etc.).

Customizable for YOUR distinctive needs

- Optimized functionality gives you fast, accurate, and practicable information.
- Dynamic user interface graphically highlights issues or actions and their impacts.
- Visualized trends and time-stamped alarms help diminish or prevent downtime.
- Customizable interface to fit your specific workflow and operations.
- Essential protocols provide superior network integration and interoperability with other systems.
- Modularity and redundancy ensures high availability and fast response times.
- Scalability that evolves with your site to protect your investment.
- Can feed your system with energy from 3 power sources: external, battery pack or petrol engine driven generator.

Functionality note in brief

- The system is a SCADA application which integrates the remote equipment (PLC cabinet and sensors) and the software (remote, server and the local web based application).
- For extra safety the local-remote communication is redundant (Ethernet and GPRS).
- If one or more parameters reach a limit value messages (SMS, e-mail) are sent to predefined recipients. In the same time the local software displays a specific error message on the screen.
- For example in the case of a black-out the power supply is switched to the battery pack and a minimum time left for the battery pack (now supplying the power for the system) is estimated. This will be the time left to the maintenance people to reach the location.

NEXTRA

FEATURES

- Industrial quality components
- High system stability
- Reduction of power downtime for critical loads
- LAN communication interface
- GSM/GPRS communication interface
- Easy extendable
- Real time monitoring and control
- Faster problem determination
- Alarm and event history
- SMS/e-mail notifications
- Automatic switching between power sources
- Energy parameter measuring and monitoring
- Ensure good power quality for your servers, routers, etc
- Temperature measuring and monitoring
- Customer oriented configuration
- Multi-console monitoring
- SSR switching : Zero crossing switching, no more spikes
- Electrical noise reduction
- Silent. No moving parts
- Configurable and programmable by user
- Operator-friendly interface

Technical Specifications & Data



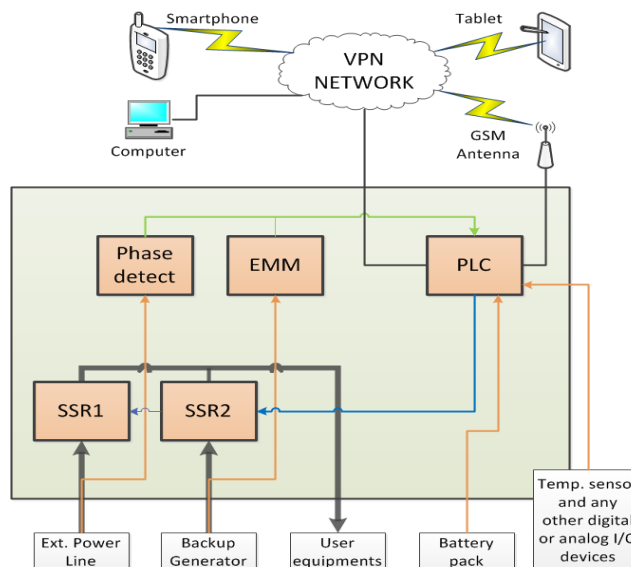
- Physical dimensions: metallic cabinet - 600x400x200 mm.
- Maximum commuted current: 32A*
- Range for commuted voltage: 44 ... 480 Vrms
- Battery pack maximum voltage: 56 VDC (increments of 0.1 VDC)
- Temperature sensor range: 0 ... 70 C (increments of 1°C)
- Operating ambient temperature range: -20 ... 50 °C
- Operating ambient humidity range 0% ... 95%, non-condensing
- Adjustable warnings (SCADA screen, SMS, e-mail)
- Software configurable features
- Cabinet weigh: 21 kg
- Monitored parameters: frequency, voltage on each phase
- Compliance with IEC 61000 and EN 55 024 prescriptions

* Depending on client request these parameters can be modified from 1 KW to 120 KW.

GSM specifications
Quad-Band 850/ 900/ 1800/ 1900 MHz
GPRS multi-slot class 10/8
GPRS mobile station class B
Compliant to GSM phase 2/2+
SIM 3V/ 1.8V

Interfaces
- LAN (10/100)
- GSM
- RS232
- RS485
- CAN
- P_EXT_BUS
- Digital IO
- Analog IO

CPU specifications
Program memory - 128KB
Data memory - 8KB
Timers - 128/1ms
Li battery
Supply - 12..56 VDC
Fast precompiled functions
Remotely configurable
Pluggable connectors



TECHNICAL SUPPORT

Designed, developed and manufactured in EU. No endless stupid call-center talks in case you need some help by phone. Yes, you will be assisted directly by one of us.

ZERO DOWNTIME

In case of power failure the PMMS can decide which is the best power supply for your devices : a backup supply, a generator or none of them leaving the UPS to feed the equipment. Meantime you can monitor in real time the UPS charge status, i.e., you will know the time left for intervention.

INCREASED SAFETY

For ex. magnetic door contacts relay signal can be added to the system. You will know in real time each doors status (open or close) and (or) the inside/outside temperature if you prefer so.

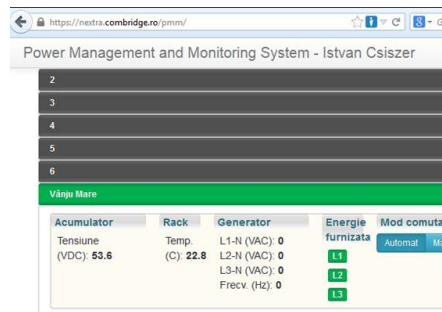
TURNKEY SOLUTIONS

If all of above is too weird for you, will be a pleasure for us to find, design, deliver and install the best solution you need.

For more information on any of our products or services please visit us on the Web at:

www.nextra.ro

However, what's this exactly ?



The system is built around our own PLC. It's mainly used in remote PoP-s, colocation centers, process automation, etc. where a good quality and continuous power supply is a must have 24/7, 365 days a year. An operator can monitor the power supply for as many locations as you want. More than that, you can set parameter limits which once reached you are alarmed by SMS, mail and on-screen. During the power failure you have reliable estimations about UPS charge status, fuel quantity in the generator tank(s)*, you can remotely hard-reset your routers*, change power feeding from the public grid to the generators and back, etc.

* Optional. On the client request these features can be added to the system functionality.

- Environmental monitoring: you will be alerted in real time for abnormal ambient temperature or humidity conditions before data or hardware damage occurs. You can also receive alarm conditions from external detectors of smoke, fire, water or unauthorized entry.
- Power quality data log: the software will record line voltage, frequency, load capacity, temperatures, etc. for easy identification of any problems.
- In case of using a petrol generator for power supply the PMMS will count the run time of the generator. So you will know when to make a scheduled maintenance for the generator engine.
- The messages sent by the PMMS can be customized to warn the operators about the power failures.
- You can receive the system's alert messages on a PC/laptop screen, in an SMS or e-mail.
- During a longer power outage if the UPS system battery is drained before an operator can shut down your devices the whole communication system will crash as if no UPS were present. Our PMMS can estimate the time left for an on-site intervention.
- The PMMS automatically alerts you to potential UPS problems so weak batteries can be replaced before they wear out.
- Real-time graphical display of power status provides a quick visual status check of the power supply and environmental conditions.

SERVICES AVAILABLE

- Technical Support
- Installation and Setup
- Maintenance
- Application Support
- Hardware Support
- Guaranteed Warranty

State-of-the-art stuff... goes far beyond the basics to offer strong power management and monitoring tools.

System Requirements

There are no specific requirements. The Nextra PMMS can be installed in any building or container.

If at the installation site the GSM signal is weak or absent and the communication redundancy is mandatory one external GSM antenna shall be used.



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