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RnD Center

HARDWARE & SOFTWARE COMPLEX

PV.MON.METEO

Generation Monitoring System for Photovoltaic Power Plants.
The system is designed to measure solar energy and
to transmit data to a server with PV.Mon software.



HARDWARE & SOFTWARE COMPLEX
PV.MON.METEO

Permanent Monitoring

Evaluation and control of the generation of photovoltaic plants with independent measurement of power.

Information and signalling on deviations from predicted generation.

Uniformity of the System

Universal for PVPP of various capacities (at power capacities of more than 10 MW, it is recommended to install multiple devices).

Integrated with existing PVPP monitoring systems.

Automation

Automatic receipt of the indices of the produced electricity from the meters at the PPP.

Automatic collection and analysis of the data received with output to online application.

Implementation of autonomous power supply is possible.

Additional options

PV.Mon.Meteo can be equipped with meteorological measurement sensors for:

- + ambient temperature;
- + PV panel temperature;
- + air humidity;
- + atmospheric pressure;
- + wind speed;
- + wind direction.

PV.Mon.Meteo
mounting system

PV.Mon.Meteo data collection
and transmission device



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Generation Monitoring System for Photovoltaic Power Plants

TECHNICAL DATA

Operation Conditions

Temperature	-40...+55 C
Humidity	0-100%

Габаритні розміри

Photovoltaic module for measurements	140x140x20 mm
Photovoltaic module for power system	510x475x25 mm
Device cabinet	300x300x150 mm
Weight, max	10 kg

Characteristics of the device cabinet

Case material	polycarbonate with fiberglass
Protection class, IP	IP64
UV resistance	Available
Power supply	independent from the PG module
Power supply voltage	~ 220 V
Power supply capacity	5 W

Зв'язок

Data transmission	GSM GPRS
Mobile carrier/APN	Kyivstar/"www.kyivstar.net"
Measurement accuracy	up to 8%

Software features:

- + receipt of data from standard and additional PV.Mon.Meteo sensors;
- + storage and maintenance of an archive;
- + automatic receipt of electricity produced from meters at the PPP;
- + informing and signalling about deviations from predicted generation;
- + automatic collection and analysis of the received data and its display in an online application.



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VIEW OF PV.MON.METEO WEB-INTERFACE PAGE WITH DETAILED MONITORING DATA

