



Technical description

Professional meter for photovoltaic installations up to 1500 V

The PVM-1530 is a pioneering meter for photovoltaic installations up to 1500 V with such a substantial number of measurement functions. It can be used for category 1 measurements according to IEC 62446-1. It allows the measurement of the I-U curve for category 2 according to IEC 62446-1. Furthermore, it also converts measured parameters into STC conditions according to IEC 60891. Comprehensive, yet simple to use, it flawlessly performs its tasks in monitoring the safety and efficiency parameters of photovoltaic (PV) installations.

Features

It can be used for category 1 measurements according to IEC 62446-1.
Allows the measurement of the I-U curve for category 2 according to IEC 62446-1.
It allows the measurement of photovoltaic panels, including bifacial and high-efficiency panels.
Ability to define measurement procedures.
It converts measured parameters into STC conditions according to IEC 60891 by cooperation with the IRM-1 solar radiation and temperature meter.
reSYNC function – automatic completion of results with environmental parameters and their conversion to STC conditions after restoring connection with IRM-1.
The attachable radio interface ensures cooperation with the IRM-1 meter over long distances.
Built-in Bluetooth and Wi-Fi for communication with external devices.
Large structured memory of measurements.
Large touchscreen for good visibility in bright sunlight.
Measured parameters

Measurement of I-U and P-U characteristics. Conversion to STC conditions.
The open circuit voltage of the PV panel or a chain of panels, up to 1500 V DC.
RMS voltage of the AC network up to 1000 V with frequency measurement.
Short circuit current of a PV panel or chain of panels - up to 40 A DC.
Insulation resistance of PV panels - measuring voltage of 250, 500, 1000, 1500 V DC, simultaneous measurement of two values: RISO+ and RISO-.
Insulation resistance of AC circuits - measuring voltage 250, 500, 1000 V DC.
Resistance of protective conductors and equipotential bonding with ± 200 mA current.
Measurement of PV panels operating current and AC current - all with CMP-1015-PV meter.
AC/DC power measurement.
Test of bypass diodes, automatic polarity detection.
Test of blocking diodes with 1000, 1500 V DC voltage.
Cat. 1 measurements and I-U characteristics

The PVM-1530 is a pioneering meter for photovoltaic installations up to 1500 V with such a substantial number of measurement functions. Their selection is done via a touch screen. The screen is large, colorful and with strong backlight so that operation in full sunlight is not a problem. Extensive structural memory significantly reduces the time for preparing post-measurement documentation.

Tightness and durability

Light meters perform well in harsh environmental conditions. The PVM-1530s housing is rugged and tight when closed to easily ensure that the meter is protected during measurement.

Communication and software

Measurement data from the PVM-1530 can be transferred to a computer via cable or wireless communication. Saving the downloaded data to popular formats and printing is ensured by Sonel Reader. In order to generate a report on electric shock protection use the optional software: Sonel Reports Plus.

Trouble? reSYNC!

It may happen that in the course of measurements the PVM-1530 moves away from the IRM-1 so far, that communication between them is lost. If the measurements are continued, then after the connection is restored, the results will be automatically supplemented with environmental parameters, which in the meantime were recorded by the IRM-1 in its temporary memory, and converted into STC conditions.

Advantages:



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