

PVK320 Photovoltaic kit



- PVM210 irradiance meter
- AVO415 CAT III 1000 V, CAT IV 600 V TRMS Multimeter
- PV solar connectors to 4 mm standard plug test leads
- PV adaptor test leads
- PV kit storage pouch

DESCRIPTION

When installing, commissioning and testing a photovoltaic installation additional instrumentation is required to accompany the usual electrician's test equipment such as the Megger MFT multifunction testers. The Megger PVK320 photovoltaic kit offers this additional instrumentation in the form of a PVM210 irradiance meter, a CAT IV 10 A DC AVO410 multimeter and a kit of specialist solar test leads.

To provide easy storage of the PV kit a zipped pouch is also included.

The PVK320 kit offers the solar / photovoltaic engineer the multimeter option of verifying, with the PVM210 irradiance meter, the stated short circuit current as provided by the manufacturer of the solar panel as required by published standards.

PVM210 Irradiance meter

The PVM210 is a pocket size instrument that has both solar detector and meter combined in one unit that permits single handed use, ideal for working at height and on sloping roofs.

The unit has a 3¾ digit display and a maximum range of 1999 W/m². A hold function allows easy measurements of solar power.

AVO415 CAT III 1000V, CAT IV 600 V multimeter

The AVO415 is a True RMS digital multimeter capable of measuring voltages up to 1000 V AC/DC. With a 6000 count high resolution display, IP67 rating for wet and dusty environments and additional functions include resistance, frequency and capacitance. The AVO415 is designed for use in the most demanding applications.

Specialist PV test leads

In addition to the silicon multimeter test leads supplied with the AVO415 two pairs of specialist solar test leads are included in the PVK320. The first pair of leads comprise of 1.3 metre test leads terminated with standard 4 mm plugs while the other ends are terminated with the typical PV type solar panel connector. For older style panels a pair of conversion adaptors are provided.

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SPECIFICATIONS

PVM210

Display:	3¾ digit LCD
Ranges:	1999 W/m ² / 634 BTU/(ft ² *h)
Accuracy:	typically within ± 10 W/m ² / ±3 BTU/(ft ² *h)
Resolution:	0.1 W/m ² / 0.1 BTU/(ft ² *h)
Dimensions:	134 mm (H) x 48 mm (W) x 27 mm (D)
Weight:	approx. 90g
Batteries:	2 x AAA, MN2400, LR03

PV test leads

1 pair 1.3 metre leads terminated with 4 mm plugs and PV solar connectors	
1 pair 0.2 metre adapter leads terminated with PV solar connectors	
Maximum current:	19 A
Maximum voltage:	1000 V
Zipped pouch	
Dimensions:	230 mm (L) x 170 mm (W) x 70 mm (D)

AVO415

DC / AC volts:	1000 V DC / 1000 V AC
DC / AC current:	10A DC / AC
Resistance:	60 MΩ
Frequency:	10 MHz
Capacitance:	10 mF
Dimensions:	180 mm (H) x 82 mm (W) x 55 mm (D)
Weight:	397 g without battery 427 g with battery
Batteries:	9 V Alkaline, NEDA 1604A/IEC 6LR61

For full information on individual instruments and electrical specifications please refer to the appropriate data sheets on each instrument.

ORDERING INFORMATION

Description	Part number
PVK320 Photovoltaic kit consisting of: PVM210 Irradiance meter, AVO415 CAT IV multimeter, PV test leads (2 sets), Zipped Pouch	1002-550
Included Accessories	
Batteries	
PVM210 pouch	
AVO415 standard test leads with probes	
Calibration certificate (PVM210 only)	

SALES OFFICE

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