PVK320
Photovoltaic kit



- **PVM210 irradiance meter**
- **AVO410 CATIV TRMS multimeter**
- **MC4 solar connectors to 4 mm standard plug test leads**
- **MC3 to MC4 adapter 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 MFT1730 and MFT1835 multifunction testers.

The Megger PVK320 photovoltaic kit offers this additional instrumentation in the form of a PVM210 irradiance meter, a CATIV 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.

AVO410 CATIV multimeter

The AVO410 multimeter features 1000 V dc / 750 V ac and 10 A ac / dc ranges. The meter has a CATIV 600 V safety rating and true RMS readings are possible on the ac ranges. Additional functions include resistance, frequency and capacitance.

The additional functions would also prove to be of use in other sections of the photovoltaic installation. The meter is supplied in a tough rubberised holster that provides an extra degree of protection.

Specialist PV test leads

In addition to the silicon multimeter test leads supplied with the AVO410 two pairs of specialist solar testleads are included in the PVK320. The first pair of leads comprise of 1.3 metre test leads terminated at each end with standard 4 mm plugs while the other ends are terminated with the typical MC4 type solar panel connector. Where panels are fitted that utilise MC3 connectors, a pair of MC3 to MC4 0.2 metre adapter leads is supplied for convenience.

Megger

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SPECIFICATIONS

PVM210

Display:	3¾ digit LCD
Ranges:	1999 W/m² / 634 BTU/(ft²*h)
Accuracy:	typically within ± 10 W/m² / ±3 BTU/(ft²*h)
Resolution:	0.1 W/m² / 0.1 BTU/(ft²*h)
Dimensions:	134 mm (H) x 48 mm (W) x 27 mm (D)
Weight:	approx. 90g
Batteries:	2 x AAA, MN2400, LR03

AVO410

dc / ac volts:	1000 V dc / 750 V ac
dc / ac current:	10A dc / ac
Resistance:	60 MΩ
Frequency:	60 MHz
Capacitance:	6 mF
Dimensions:	82 mm (W) x 164 mm (H) x 44 mm (D)
Weight:	522g
Batteries:	9 V PP3, 6F22, NEDA

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

PV test leads

1 pair 1.3 metre leads terminated with 4 mm plugs and MC4 solar connectors
1 pair 0.2 metre adapter leads terminated with MC4 and MC3 solar connectors

Maximum current:	19 A
Maximum voltage:	1000 V

Zipped pouch

Dimensions:	230 mm (L) x 170 mm (W) x 70 mm (D)

ORDERING INFORMATION

Item (Qty)	Cat. No.
PVK320 Photovoltaic kit consisting of: PVM210 Irradiance meter AVO410 CATIV multimeter PV test leads (2 sets) Zipped Pouch	1002-550
Included accessories	
Batteries	
PVM210 pouch	
AVO410 standard test leads with probes	
Calibration certificate (PVM210 only)	

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CERTIFICATION ISO
Registered to ISO 9001:2008 Cert. no. Q 09250
Registered to ISO 14001-2004 Cert. no. EMS 61597

PVK320_DS_en_V01
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