PVK330 Photovoltaic kit

**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 PVK330 photovoltaic kit offers this additional instrumentation in the form of a PVM210 irradiance meter, DCM340 600 A AC / DC clampmeter and a kit of specialist solar test leads. To provide easy storage of the PV kit a zipped pouch is also included.

The PVK330 kit offers the solar / photovoltaic engineer a clampmeter 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.

In addition, this clampmeter offers the option of testing the current within each ‘string’ on a larger solar array without disconnection of cables.

**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 3½ digit display and a maximum range of 1999 W/m². A hold function allows easy measurements of solar power.

**DCM340 clampmeter**

The DCM340 clampmeter features 600 V AC / DC and 600 A AC / DC ranges. Additional functions include resistance and frequency. A hold feature to enable easy measurements is also included. The additional functions would also prove to be of use in other sections of the photovoltaic installation. Silicon test leads with probes and a protective storage pouch are provided with each clamp.

**Specialist PV test leads**

In addition to the silicon multimeter test leads supplied with the DCM340 two pairs of specialist solar test leads are included in the PVK330. 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 PV type solar panel connector. For older style panels a pair of conversion adaptors are provided.
PVK330
Photovoltaic kit

SPECIFICATIONS

PVM210
Display: 3½ 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

DCM340
DC / AC volts: 600 V DC / 600 V AC
DC / AC current: 600 A DC / AC
Resistance: 400 Ω
Frequency: 400 Hz
Dimensions: 68 mm (W) x 237 mm (H) x 42 mm (D)
Weight: 225g
Batteries: 9 V PP3, 6F22, NEDA

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)

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

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
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<tbody>
<tr>
<td>PVK330 Photovoltaic kit</td>
<td>1002-551</td>
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<tr>
<td>consisting of: PVM210 Irradiance meter, DCM340 clampmeter, PV test leads (2 sets), Zipped Pouch</td>
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<tr>
<td>Included accessories</td>
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<tr>
<td>Batteries</td>
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<tr>
<td>PVM210 pouch</td>
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<tr>
<td>DCM standard test leads with probes</td>
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<tr>
<td>Calibration certificate (PVM210 only)</td>
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</tbody>
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