## PV150 Solar Installation Test Kit



## The world's first all-inclusive solar PV specific installation electrical safety testing kit, now with Solarlink™ and USB connectivity.

The PV150 Solar Installation Test Kit includes all of the tools needed to determine the electrical safety and performance of photovoltaic installations in line with MCS and BS EN 62446 requirements.

The kit is based around the Solar Installation PV150, which combines all test functions required to meet MCS and BS EN 62446 into one safe, easy-to-use, hand-held device. The addition of USB and wireless Solarlink™ connectivity makes the PV150 the most versatile, safe and technically advanced solar PV tester on the market.

Transforming the way that PV systems are tested, the PV150 replaces the three separate instruments which are ordinarily used for commissioning tests; combining earth continuity, insulation resistance, open circuit voltage, short circuit current, operating current (using supplied AC/DC current) and DC operating power test functions into one handheld unit. The kit includes MC4 and Sunclix test adaptors which enable quick, safe and easy connection of the tester to the PV modules, strings or array.

As well as a comprehensive range of electrical test functions, the PV150 has memory to store up to 200 complete test records with USB connectivity to enable these to be quickly and easily downloaded to a PC. When coupled with Seaward's SolarCert Elements software program (supplied separately) professional test certificates and reports can be created.

The PV150 tester features new Solarlink<sup>™</sup> connectivity which further improves the versatility of the instrument. Using Seaward Solarlink<sup>™</sup>, the PV150 can wirelessly capture and record real-time irradiance, ambient temperature and PV module temperature measurements from the Solar Survey 200R (supplied separately). This means that you can take all measurements, as required by MCS and BS EN 62446 standards, simultaneously.

## **KEY FEATURES:**

- Combines all commissioning tests required by MCS and BS EN 62446
- Memory for up to 200 records
- USB download to PC
- Featuring new Seaward
  Solarlink™
- Single key testing and measurement
- Safe test connection with energised PV arrays
- Earth continuity measurement
- Earth test lead null (up to  $10\Omega$ ) for long test-lead
- PV string open circuit voltage measurement up to 1000V DC
- Open circuit voltage polarity indication
- PV string short circuit current measurement up to 15A DC
- PV array insulation test at 250/500/1000V
- Rugged and robust

## TECHNICAL SPECIFICATION: **KIT INCLUDES: FARTH CONTINUITY** Seaward Solar Installation Display Range $0.00\Omega$ to $199\Omega$ PV150 Tester Measuring Range $0.01\Omega$ to $199\Omega$ Resolution 0.01Q maximum 2 x MC4 test lead adaptors Open Circuit Test Voltage 4VDC, nominal Short Circuit Test Current >200mA (as per IEC 61557-4) 2 x Sunclix test lead adaptors Test Lead Compensation Null out up to $10\Omega$ User Protection Warning and test inhibited if ≥ 30V AC/DC detected at Test lead, red, with test probe inputs and detachable alligator clip, **INSULATION RESISTANCE** Test lead, black, with test probe Display Range 0.05MQ to 199MQ and detachable alligator clip Measuring Range $0.05M\Omega$ to $199M\Omega$ Resolution $0.01M\Omega$ maximum AC/DC current clamp Open Circuit Test Voltage 250V, 500V, 1000VDC (as per IEC 61557-2) Short Circuit Test Current >1mA. <2mA s/c as per IEC 61557-2 Rugged carry bag ≥ 30V AC or DC at inputs Visible Warning Quick Start Guide **OPEN CIRCUIT VOLTAGE** Support CD Rom Display Range 0.0VDC to 1000VDC Measuring Range 5.0VDC to 1000VDC Resolution 0.1V maximum **UKAS Calibration Certificate Enunciators** DC voltage polarity correct or reversed SHORT CIRCUIT CURRENT **ACCESSORIES:** (optional) 0.0ADC - 15.00ADC Display Range Measurement Range 0.5ADC - 15.00ADC MC3 test lead adaptors Resolution 0.01A Tyco (TE) Sunlok test lead **OPERATING CURRENT (USING AC/DC CURRENT CLAMP)** adaptors 0.0A - 40ADisplay Range 0.5A - 40AMeasurement Range Fused test leads - 1 pair of Resolution 0.1A max fused red and black test probes with alligator clips DC OPERATING POWER SolarTags 0.0kW - 40.0kWDisplay range Measurement ranges 0.1kW - 40.0kW PV Inspection & Test Report and Resolution 0.1kW **PV System Verification DATALOGGING AND CONNECTIVITY** Certificate Pads Datalogging Up to 200 complete test datasets Download utility software included Compatible with SolarCert Elements software (version 1.1)

USB download to PC

Wireless 'Solarlink™' to Survey 200R (range c. 100m / 330ft)

Connectivity



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.