

MCS Solarlink™ Test Kit

INCLUDES
SolarCert
Elements
Software for a
limited period
only.



A complete solution to the testing and measurement requirements of MCS MIS 3002.

The MCS Solarlink™ Test Kit meets all of the commissioning test requirements of MCS and BS EN 62446. It combines the PV150 installation test kit with the advanced Solar Survey 200R multifunction irradiance meter; offering a complete solution to the requirements of MCS MIS 3002.

The kit includes all of the necessary equipment to measure the electrical safety and performance of PV systems as well as irradiance.

The PV150 installation tester 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 (uses 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 professional test certificates and reports can be created.

KEY FEATURES:

The comprehensive PV150 tester conducts all of the electrical tests required by MCS at the touch of a button.

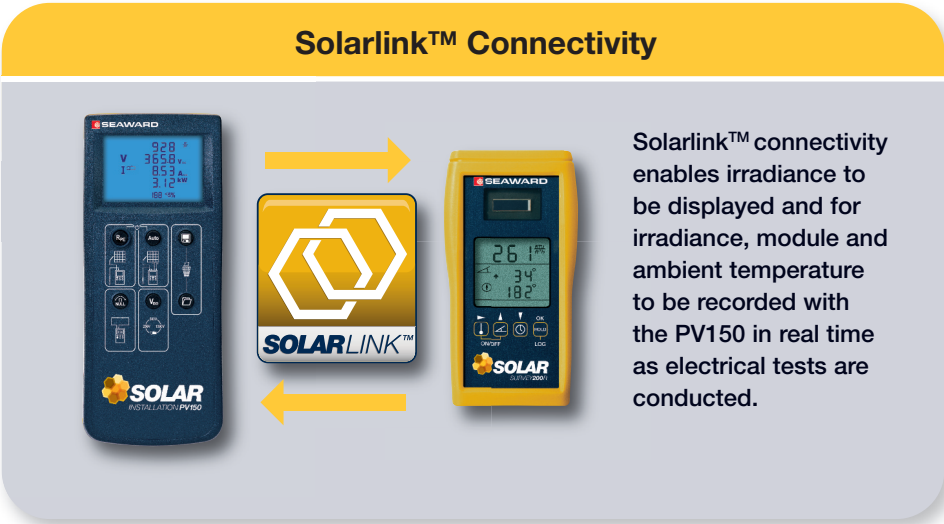
Solarlink™ connectivity between the PV150 tester and the Solar Survey 200R multifunction irradiance meter enables irradiance to be displayed and for irradiance, module and ambient temperature to be recorded within the PV150 in real-time as electrical tests are conducted.

USB download of stored test results and irradiance measurements speeds up the completion of documentation and improves traceability of results.

Solar Survey 200R uses a temperature compensated reference cell for accurate and representative irradiance measurements.

When combined with SolarCert Elements software, the MCS Solarlink™ Test Kit represents the complete solution in PV commissioning, containing all that is needed for testing and documenting installations to the requirements of MCS.

Using Seaward Solarlink™ connectivity, the PV150 can wirelessly capture and record real-time irradiance, ambient temperature and PV module temperature measurements from the Solar Survey 200R multifunction irradiance meter. This means that you can take all measurements, as required by MCS and BS EN 62446 standards, simultaneously.



KIT INCLUDES:	
	PV150 solar installation tester
	Solar Survey 200R irradiance meter
	AC/DC current clamp
	Rugged carry bag
	2 x MC4 test lead adaptors
	2 x Sunclix test lead adaptors
	Red and Black Test leads, with test probe with detachable alligator clips
	Quick Start Guides
	Support CD-Rom
	PV150 UKAS Calibration Certificate
	Solar Survey 200R Calibration Certificate

TECHNICAL SPECIFICATION: PV150 Solar Installation tester

EARTH CONTINUITY

Display Range	0.00Ω to 199Ω
Measuring Range	0.01Ω to 199Ω
Resolution	0.01Ω maximum
Open Circuit Test Voltage	4VDC, nominal
Short Circuit Test Current	>200mA (as per IEC 61557-4)
Test Lead Compensation	Null out up to 10Ω
User Protection	Warning and test inhibited if ≥ 30V AC/DC detected at inputs

INSULATION RESISTANCE

Display Range	0.05MΩ to 199MΩ
Measuring Range	0.05MΩ to 199MΩ
Resolution	0.01MΩ maximum
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
Visible Warning	≥ 30V AC or DC at inputs

OPEN CIRCUIT VOLTAGE

Display Range	0.0VDC to 1000VDC
Measuring Range	5.0VDC to 1000VDC
Resolution	0.1V maximum
Enunciators	DC voltage polarity correct or reversed

SHORT CIRCUIT CURRENT

Display Range	0.0ADC – 15.00ADC
Measurement Range	0.5ADC – 15.00ADC
Resolution	0.01A

OPERATING CURRENT (USING AC/DC CURRENT CLAMP)

Display Range	0.0A – 40A
Measurement Range	0.5A – 40A
Resolution	0.1A max

DC OPERATING POWER

Display range	0.0kW – 40.0kW
Measurement ranges	0.1kW – 40.0kW
Resolution	0.1kW

DATALOGGING AND CONNECTIVITY

Datalogging	Up to 200 complete test datasets Download utility software included Compatible with SolarCert Elements software (version 1.1)
Connectivity	USB download to PC Wireless 'Solarlink™' to Survey 200R (range c. 100m / 330ft)

GENERAL SPECIFICATIONS

Display	Custom LCD with backlight
Power Supply	6 x 1.5V Alkaline LR06
Battery Life	>1000 test sequences
Auto Power Down	User programmable

ADDITIONAL INFORMATION

Warranty Period	2 years
Calibration Interval	1 year
	UKAS Calibration Certificate supplied as standard

OPTIONAL ACCESSORIES:

MC3 test lead adaptors

Tyco (TE) Solarlok test lead adaptors

Fused test leads - 1 pair of fused red and black test probes with alligator clips

SolarTags

ALSO AVAILABLE:

SolarCert Elements Test Reporting & Certification Software

Solar Power Clamp

PV Inspection & test report and PV system Verification Certificate pads

TECHNICAL SPECIFICATION: Solar Survey 200R Irradiance Meter

IRRADIANCE

Display Range	0 – 1500 W/m ⁻² or 0 – 500 BTU/hr-ft ²
Measurement Range	100 – 1250 W/m ⁻² or 30 – 400 BTU/hr-ft ²
Resolution	1 BTU/hr-ft ² / 1W/m ⁻²

TEMPERATURE

Display Range	-30°C to +125°C
Measurement Ranges	-30°C to +125°C
Resolution	1°

COMPASS BEARING

Display Range	0° to 360°
Measurement Ranges	0° to 360°
Resolution	1°

INCLINOMETER

Display Range	0° to 90°
Measurement Ranges	0° to 90°
Resolution	1°

DATALOGGING AND CONNECTIVITY (SURVEY 200R ONLY)

Datasets	5000
Sample Rate	1 to 60 minutes (user definable)
Datalogging	Download utility software included Compatible with SolarCert Elements software (version 1.1)
Connectivity	USB download to PC Wireless ‘Solarlink™’ to PV150 (range c. 100m / 330 ft)

GENERAL SPECIFICATIONS

Display	Custom LCD
Power Supply	2AA Alkaline Batteries
Battery Life	>20,000 Readings
Auto power down	After 2 minutes

SERVICEABILITY

Warranty	2 years
Calibration	1 year

ADDITIONAL INFORMATION

Supplied with calibration certificate

MCS Solarlink™ Test Kit Part No: 388A915



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.