

TCC PV Solar Kits



TCCPVKIT1: Basic Kit

- 14" Rugged Carry Case
- SM206 Solar Power Meter
- MC4 Crimp Tool & Spanners



TCCPVKIT2: Installer Kit

- 14" Rugged Carry Case
- SM206 Solar Power Meter
- DL9206 Digital Multimeter
- MC4 -4mm Test Leads



TCCPVKIT3: Intermediate Kit

- 14" Rugged Carry Case
- SM206 Solar Power Meter
- DL6402 1000A Clamp Meter
- MC4 -4mm Test Leads



TCCPVKIT4: Pro Kit

- 14" Rugged Carry Case
- SM206 Solar Power Meter
- DL6402 Digital Multimeter
- DL9206 Digital Multimeter
- MC4 -4mm Test Leads
- MC4 Crimp Tool & Spanners

SM206 Specification:



This meter is a precision instrument for measuring light intensity. Its applications include solar radiation measurement, solar research, physical and optical experiments, meteorology, and agriculture. It can also be used to measure glass light intensity to verify glass properties. E.g., measurement of light intensity passing through vehicle windows.

Features:

- Selectable from two units: W/m^2 and Btu/ft^2-h .
- Peak value retention function.
- Data retention function.
- Measure directly without adjustment.
- Steadily measure for a long period.

Specifications:

- Resolution: $0.1W/m^2$; $0.1Btu/ft^2-h$
- Error range: $10W/m^2$; [$3Btu/ft^2-h$] or 5% of the measured value
- Temperature error: $0.38W/m^2$; / C [$0.12Btu/ft^2-h/C$] deviation at 25C
- Display: 3-3/4LCD display, maximum displayed numerical value 3999
- Shift: <3% /year
- Overload display OL
- Range: $0.1-399.9W/m^2$; $1-3999W/m^2$; $0.1-399.9Btu/ft^2-h$; $1-3999Btu/ft^2-h$
- Sampling time: 0.25s/time
- Battery needed: 9V battery (not included)
- Operation temperature and humidity: 0C to 50C <80%RH
- Storage temperature and humidity: -10C to 60C <70%RH
- Dimensions: approx. 132 * 60 * 38mm / 5.2 * 2.36 * 1.5in
- Weight: approx. 150g / 5.3oz
- Package size: 20 * 15 * 5.5cm / 7.87 * 5.9 * 2.16in (L * W * H)
- Package weight: 363g / 12.83oz

Package List:

- 1 * Solar Power Meter
- 1 * User Manual (English)

DL6402 Digital Clamp Meter Specification:

With inclusion of DC current temperature & capacitance readings, this clamp meter is the ideal all purpose instrument. The slim design combined with the tear shaped jaw makes it an ideal unit for use in crowded panels and tight spaces. The data hold and peak capture function makes this a versatile and cost effective clamp meter.

Features:

- Audible Continuity
- Temperature thermocouple and K-Type adaptor supplied
- Frequency and capacitance
- 30 mm jaw opening
- 1000 AC/DC Current reading
- Electronic overload protection
- A large easy to see back lit display
- AC/DC voltage up to 600V

Measurement	Range	Basic Accuracy
AC Current	0.01A - 1000A	3% ± 5 dgts
DC Current	0.01A - 1000A	2.8% ± 5 dgts
AC Voltage	0.1mV - 600V	1.8% ± 3 dgts
DC Voltage	0.1mV - 600V	1.5% ± 3 dgts
Resistance	0.1Ω - 40MΩ	1.5% ± 2 dgts
Capacitance	40.00nF - 100.0uF	3% ± 5 dtgs
Frequency	0.001Hz - 100.0kHz	1.2% ± 2 dgts
Temperature	-20°C - 1000°C -4°F - 1832°F	±3.0 % of rdg ± 5 dgts ±3.0 % of rdg ± 7 dgts
Diode Test	1.5V DC Typical	N/A
Power supply	1 x 9 V battery PP3	
Dimensions	229 x 80 x 49 mm	
Weight	303g	

DL9206 Digital Multimeter Specification:

The DL9206 is a compact digital multimeter with a double moulded rubber & plastic housing featuring an oversized high contrast 6000 count LCD display. With full protection on all ranges, temperature and safety category rating of CAT III 600 V, the DL9206 is a fantastic choice for most electrical engineers with the most demanding of applications.

Key Features:

61 segment analogue bar graph

Max/Min recording mode

Temperature reading in °C and °F

Capacitance measurement from 10pF

Backlit LCD display

Continuity buzzer

Resistance to 40MΩ

Audible continuity

Data hold

Specifications

Measurement	Range	Basic Accuracy
AC voltage	1.0 mV - 750 V	+/- 1.5 % + 3 digits
DC voltage	0.1 mV - 1000 V	+/- 1.2 % + 2 digits
AC current	1 mA - 10 A	+/- 1.8 % + 7 digits
DC current	1 mA - 10 A	+/- 2.5 % + 5 digits
Resistance	0.1 Ω - 60 MΩ	+/- 1.2 % + 2 digits
Capacitance	10 pF - 4000 μF	+/- 3.0 % + 5 digits
Frequency	0.001 Hz - 2.999 MHz	+/- 1.2 % + 3 digits
Temperature	-20°C to 760°C	+/- 3.0 % + 3 digits
Diode test	0.3 mA typical 1.5 V DC	
Power supply	1 x 9 V PPS alkaline battery (supplied)	
Dimensions	150 x 70 x 48 mm	
Weight	255 g	

MC4 Crimp Tool Specification:



This is a 2.5-6mm² B-2546 A-2546B crimping tool designed for crimping the internal connection of MC4 Solar Photovoltaic Connectors.

Model: A2564B

Crimping Capacity: 2.5/4/6mm

Length: 270mm

Weight: 800g

MC4 Test Lead Specification:



This Solar PV Test Lead Set may carry The Calibration Centre's branding but they often surpass the quality of the test leads supplied by the manufacturers and at a much cheaper cost! These leads are compatible with a wide range of testers provided they have the industry standard 4mm shrouded connectors & a voltage measuring functions. This makes the TCC_MC4 test lead set suitable for use with many popular multimeter, clamp meters from most brands!

The leads included in this kit are versatile, durable and have been extensively tested by The Calibration Centre to ensure they last a long time and still give excellent levels of performance. The MC4 & Type 4 Connectors (plug & socket) are ideal for safely connecting to Solar Photovoltaic panel when taking a Voltage Open Circuit (VOC) measurement.

The kit contains:

- Red/Black test leads – high quality with silicon cable
- Red/Black 4mm right angled shrouded 4mm plugs
- MC4 Male/Female connections

Key Features

- High performance connectors give testing consistency
- UK Design & Manufacture
- Strong G7 test leads extensively tested for durability
- Compatible with a large selection of testers