

MPCC230 Megger Pro Circuit Checker



- TRMS professional socket checker
- 30 mA Type A, AC and F RCD Test
- AUTO RCD x $\frac{1}{2}$, x1, x5 and 180°
- Touch voltage indication
- Frequency measurement
- Earth loop impedance with prospective earth fault current
- THD% of mains voltage
- Voltage harmonics indication, up to the 50th

DESCRIPTION

The MPCC230 is an advanced socket tester and circuit checker, in one pocket sized housing. With a super bright 1.7" TFT colour display, the MPCC230 offers a fast solution for electricians to check the voltage and polarity of a socket. It will also indicate the condition of the earth loop and RCD protective device (if fitted). Using SuperCap technology, the checker can store a series of results that are accessed using the free Megger MPCC app.

FEATURES

The MPCC offers the following features:

- Socket polarity
- TRMS Voltage measurement
- AUTO RCD test (Type A, AC and F)
- RCD contact voltage
- No-trip earth loop impedance test with low and extra-low test current modes and touch voltage indication
- Prospective earth fault current display
- Voltage harmonics up to the 50th
- THD% (Total harmonics distortion)
- Results storage for up to 64 loop and RCD tests
- Dedicated results app - Megger Pro Circuit Checker Adaptor App



SPECIFICATIONS

RCD test

Test voltage L-PE 190 to 250 V - Frequency 50 Hz $\pm 5\%$

RCD type	I Δ n	Resolution	Accuracy I Δ n
AC, A, F, Time	30 mA	<0.1 I Δ n 0.1 ms	$\pm (0.0\% + 5\% I\Delta n)$ $\pm 2 \text{ ms} + 2 \text{ dgt}$

Earth loop test

No-trip earth loop impedance test voltage: 190 to 250 V (line-PE)

Standard mode test current 15 mA

Range (Ω)	Resolution (Ω)	Accuracy
0.01 to 9.99	0.01	$\pm (5.0\% + 8 \text{ dgt})$
10 to 99.9	0.1	$\pm (2.0\% + 8 \text{ dgt})$
100 to 999	1	$\pm (2.0\% + 8 \text{ dgt})$
LOW mode test current 6 mA		$\pm (7.0\% + 10 \text{ dgt})$

AC TRMS Voltage (Phase - Neutral)

Allow crest factor: 1.5 Frequency : 42 to 69.0 Hz

Range (V)	Resolution (V)	Accuracy
120 to 250	1	$\pm (1.0\% + 3 \text{ dgt})$

Frequency

Range (Hz)	Resolution (Hz)	Accuracy
42 to 69	0.1	$\pm (2.0\% + 1 \text{ dgt})$

Voltage Harmonics

1st to 50th Harmonic (voltages are zeroed in value <0.8 V)

Range (V)	Resolution (V)	Accuracy
0.8 to 265	0.1	$\pm (3.0\% + 5 \text{ dgt})$

MPCC230

Pro Socket Checker

Socket polarity test

Indication of:

No Earth - Phase neutral reverse - Phase earth reverse -
Voltage N-Pe > 50 V

Voltage input

Category rating CAT II 250 V to ground
Max Input 250 V AC

Safety standards

Safety of measuring instruments
IEC/EN61010-1
IEC/EN61010-2-2030
EMC IEC/EN61326-1

Display and memory

Features 1.7" TDT colour graphic LCD
Memory storage 64 locations

Working environment conditions

Reference temperature 5°C to 23°C
Working temperature 5°C to 40°C
Relative humidity <80% RH
Storage temperature -10°C to 60°C
Storage humidity <80% RH
Environmental rating IP40

Mechanical features

Dimensions 81.5 x 70 x 83 mm
Weight 110 g

ORDERING INFORMATION

Description	Part number
MPCC230-UK	1015-876
MPCC230-EU	1015-877

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