

## 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 50<sup>th</sup>
- 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 $\Delta$ n	Resolution	Accuracy I $\Delta$ n
AC, A, F, Time	30 mA	<0.1 I $\Delta$ n 0.1 ms	$\pm$ (0.0% + 5% I $\Delta$ n) $\pm$ 2 ms + 2 dgt)

#### Earth loop test

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

Standard mode test current 15 mA

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

#### Frequency

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