

Multifunction Socket Tester

**110V / 220V
Dual Voltage**

Voltage Measurement

Frequency Measurement

Socket Wiring Check

NCV Detection

Torch / Flashlight

RCD / ELCB Trip Test

N-E / L-E High Loop Check

Wireless Connectivity MS-BCP20R (8 in 1)

Transmit data to Smart phone / Tablet



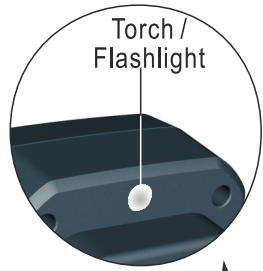
Digital display



8 in 1

NEW

MS-BCP20R
Wireless Connectivity (Bluetooth Integrated)



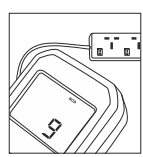
7 in 1



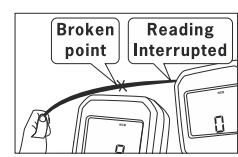
MS-CP20R

Advanced features of NCD (Must connect to the power source):

Identify Polarity and Broken Point !



Highest Reading on the wire indicates Live wire



Numerical reading '0' or very low indicates broken point location

Check Gound / Earth Connection Of Electrical Appliances !



Microwave oven / Oven



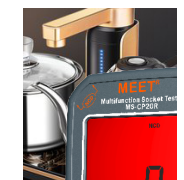
Refrigerator / Wine cabinet



Air-conditioner / Fan heater



Electric water heater



Electric kettle / Rice cooker / Toaster

Reading display > 2 approx. indicates NO Ground / Earth connected !

Proper Connection Check



With the power OFF. Reading display > 2 approx. digits when the plug is inserted improperly, OR if the 'LIVE/HOT' wire is improperly connected to the plug



With the power OFF. Numerical reading '0' or very low indicates that wiring is properly connected



With the power OFF. Reading display > 2 approx. digits which indicates the switch is connected with 'Neutral' not 'Live' wire



With the power OFF. Numerical reading '0' or very low indicates the switch already cut off from the 'Live' wire and the wiring is properly connected

Instantaneously Check Fuse Blown

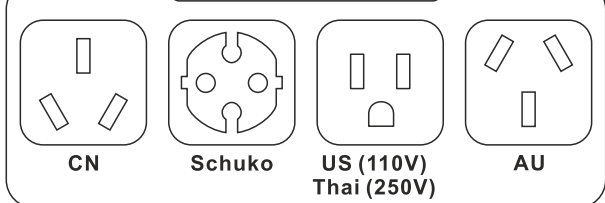


Reading display > 2 approx. digits, AC present



Numerical reading '0' or very low on the wire indicates fuse is blown !

Other Plugs Type Available



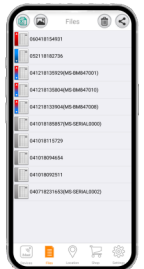
Analogue display (Turn clockwise)



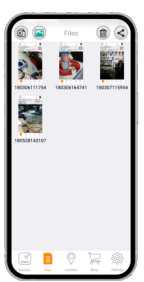
Real time graphic display (Turn anticlockwise)



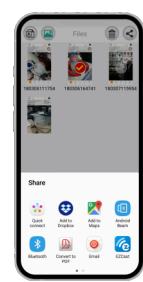
Capture picture with data on screen display



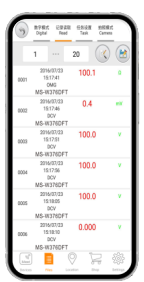
Historical storage / data filing



Historical storage / photo with data filing (For iOS APP, please go to photo library to view the stored pictures and share)



Send / share file or photo



Data logger compatible

Multifunction Socket Tester

110V / 220V
Dual Voltage

Introduction:

MS-CP20R / MS-BCP20R, A multifunction Socket Tester for every electrician; DIY; etc. It is combined with 3 instruments for easy handling and testing . i.e.

- 1) DMM: It measures AC voltage of L-N and L-E as well as frequency.
- 2) Socket Tester: Identify wiring connections of socket and tests 30mA / 220V; >6mA / 110V RCD / ELCB trip condition.
- 3) NCV Tester: NCD combined with numerical digital display of AC signal strength with high sensitivity and precisely locate live wires; broken point; fuse blown; check proper connection of electrical appliances as well as Ground / Earthing connections. Loud increasing audible sound with large white / green / red backlight enhancement extra feedback.
- 4) MS-BCP20R is integrated with Bluetooth Wireless Connectivity to transmit data to Smart Phone / Tablet to view data, record reading, capture picture with data and send the information to headquarter.

Specifications with unique features:

- 1) Identify wiring condition of electrical socket: Correct / LN Reverse / LE Reverse / LE Fault / N Fault / E Fault /
NEW 'N' / 'E' Reverse or 'L' / 'E' 'High' loop impedance (through non-tripped RCD test function)
- 2) LCD readout: LN Voltage / LE Voltage / Frequency
- 3) RCD / ELCB trip with 5 secs. delay executive feature: 30mA approx. / 220V ~ 250V AC; > 6mA / 110V AC
- NEW** 4) N-E / L-E / Loop impedance fault check (after approx. 5 secs. when RCD NOT tripped) : Either 'N' / 'E' reversed OR 'L' / 'E' 'High' loop impedance
- 5) Audible sound feedback
- NEW** 6) 'NCD' alert detect : Audible and numerical display from 0 - 9 the AC signal strength, when >50V AC
- 7) White LED torch
- 8) Backlight : a) 'White' for normal visual b) 'Red' for 'FAULT' c) 'Green' for 'CORRECT' d) Tri state at NCD
- 9) 'Auto hold' measured data is convenient to tests hard-to- reach sockets and recall back the test results
- 10) Auto power off : 1 minute after plugged off
- 11) Transmit information to Smart phone / Tablet with iOS or Android apps (MS-BCP20R model only)
- 12) Remote RCD trip test function (MS-BCP20R model only)
- 13) Real time monitor Voltage / Frequency (MS-BCP20R model only)
- 14) Data logging through Smartphone / Tablet (MS-BCP20R model only)
- NEW** 15) Measurable voltage: 100 - 250VAC
- NEW** 16) 110 / 220V AC Dual voltage operation
- NEW** 17) Low AC test current flow (<1.0mA) except on RCD trip test, suitable for testing on high sensitive leakage socket
- 18) Measurable frequency : 40 - 70 Hz
- 19) Battery operated : 2 x 1.5V AAA (R03 / LR03)
- 20) Operating current : < 25mA max.
- 21) Rating : 100 - 250V AC / 50 / 60 Hz / < 0.1A / CAT. II
- 22) Low battery indication: Yes
- 23) Reset : For emergency stop testing RCD / ELCB trip or operation
- 24) Cal. : Enable to reduce AC sensitivity to zero when at NCD mode

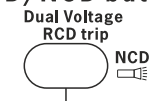
Operations:

- 1) **Power (PWR) button** : - Press and hold for 3 secs. to Power ON / OFF (wireless connectivity 'Tx.' automatically is activated / deactivated for MS-BCP20R model)



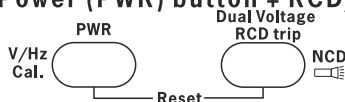
- After power ON, Press once to read out LN voltage / LE voltage / Frequency
- After the NCD function is activated, press once for NCD 'Cal.' mode (adjust the sensitivity to zero)

- 2) **RCD/NCD button** : -Long press 5 secs. for RCD / ELCB trip when wiring properly connected OR N-E / L-E loop impedance fault check



- After plugged off, long press for ON/ OFF NCD detect function
- After plugged off, press once for white LED flash light / torch ON/OFF

- 3) **Power (PWR) button + RCD/ELCB/ NCD button** : - Press simultaneously to stop testing RCD/ ELCB or reset the operation



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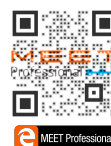
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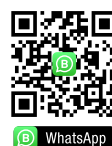
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