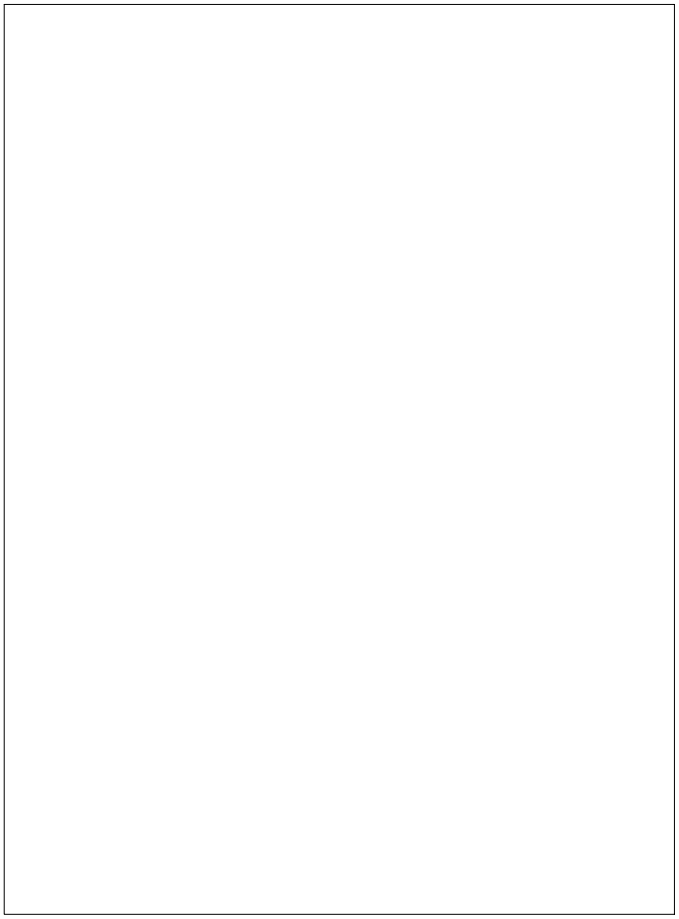
RCCB CHECKER (220 V)

Residual Current Circuit Breaker Checker

Model : RCB-220V



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1. FEATURES

* It is used for quick checking of the pin assignment for the ACV outlet as well as for verification of the RCCB (Residual Current Circuit Breaker) the 5 rated tripping current settings of 10 mA, 30 mA, 100 mA, 300 mA and 500 mA.
* Phase detection and phase inversion.
* Indication of plug assignment via 3 LEDs.
* Display of tripping pulse current for residual currents.
* Operated without battery, direct power supply from the mains ACV outlet to be tested.
* Handy & compact ABS plastic housing case.

2. GENERAL SPECIFICATIONS

Display	* 3 LEDs for pin assignment of sockets L-N, L-PE, N-PE. (L-Line, N-Neuter, PE-Power Earth)
	* 1 LED for tripping current pulse.
Applications	* Checking the shock-proof plug pin assignment
	* Residual Current Circuit Breaker Test
Rated Tripping Current Settings	10 mA, 30 mA, 100 mA, 300 mA and 500 mA.
Test Current Duration	Approx. 140 ms to 200 ms.
Testing Voltage/Hz	200 to 240 ACV/ 50 to 60 Hz.
Power Supply	Directly from mains.
Operating Temp.	0 蚓 to 50 蚓(32 蚌 to 122 蚌).

Operating Humidity	Less than 80% RH.
Weight	200 g/0.44 LB.
Dimension	180 x 72 x 32 mm
Accessories Included	Instruction manual.....1 PC Power cable with Plug..... 1 PC

3. FRONT PANEL DESCRIPTION

Fig. 1

3-1 Input Socket for Checker
3-2 Display LEDs : L-PE, L-N, N-PE and test
3-3 Test Button (triggers test current pulse)
3-4 Phase Polarity Select Switch
3-5 Rotary Switch for Tripping Current
3-6 ACV Plug for Power Cord
3-7 End Plug for Power Cord

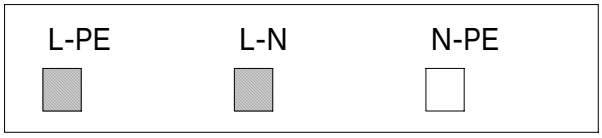
4. MEASURING PROCEDURE

4-1 Checking the ACV outlet pin assignment

a) Connect " End Plug for Power Cord "(3-7, Fig. 1) to the " Input Socket for Checker "(3-1, Fig. 1)

b) Plug in the " ACV Plug for Power Cord "(3-6, Fig. 1) to the ACV outlet.

c) If the ACV outlet is wired correctly, then the diodes of " L-N " & " L-PE " are illuminated.



d) Table 1 present all the LED lamp condition for the L-PE, L-N, N-PE, please refer it.

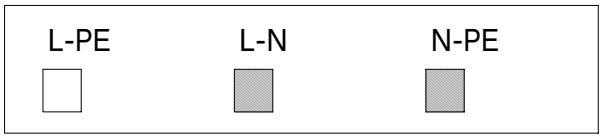
L-PE	L-N	N-PE	■....ON □....OFF
■	■	□	..... correct connection
□	■	■	.... L and N inverted
□	■	□	.....PE missing
■	■	■	.....N missing
□	□	□	.....L missing
■	□	■	.....L and PE inverted

Table 1

4-2 Residual Current Circuit Breaker Test

a) Proceed as above 4-1.

b) If the LED display as following, it means the condition of the " L and N inverted ".



Under this condition you may inverse conductors " N " and " L " by using the " Phase Polarity Slide Switch "(3-4, Fig. 1) to change the phase polarity.

Attention :

To select the correct phase polarity is necessary as the RCCB can only be tripped with correct phase connection.

c) Select desired tripping current(10 mA, 30 mA, 100 mA, 300 mA or 500 mA) by select the " Rotary Switch for Tripping Current "(3-5, Fig. 1) and trigger the RCCB (Residual Current Circuit Breaker) by pushing the " Test Button " (3-3, Fig. 1).

d) After push the " Test Button ", then RCCB will be triggered if already select the correct tripping current & if the RCCB operates orderly. Other wise the RCCB is out of order.

5. MEASURING CONSIDERATION

a) ***Only use the RCCB checker in measuring circuits with voltages lower than 263 ACV.***

b) ***As to prolong life and safe operation, for the range of 500 mA tripping current setting, please wait approx. 10 seconds between each test***