

### Continuity Measurement

- 1) Connect the PowerCheck 1557 to mains outlet socket.
- 2) Select the **Rpe** range on the PowerCheck 1557.
- 3) Connect the Installation tester between the **COMMON** and **0.5R** test terminals. Start a Continuity test on the Installation tester, the tester should indicate a reading of  $0.5\Omega \pm 30\%$ .
- 4) Connect the Installation tester between the **COMMON** and **2.0R** test terminals. Start a Continuity test on the Installation tester, the tester should indicate a reading of  $2.0\Omega \pm 30\%$ . Ensure that the **In** LED is illuminated, this indicates that the Installation tester is outputting  $>200\text{mA}$ .
- 5) Connect the Installation tester between the **COMMON** and **o/c** test terminals. Start a Continuity test on the Installation tester. Ensure that the **Un** LED is illuminated, this indicates that the test voltage is between 4 and 25V.

### Loop Impedance

- 1) Connect the PowerCheck 1557 to a mains outlet socket.
- 2) Select the **Loop** position on the PowerCheck 1557.
- 3) Select **Loop** on the Loop rocker switch.
- 4) Perform a Loop Impedance test on the Installation tester, make a note of the value. This is the impedance of the mains socket and the PowerCheck 1557.
- 5) Select **Loop+1** on the Loop rocker switch.
- 6) Perform a Loop Impedance test on the Installation tester. This is the impedance of the mains socket and the PowerCheck 1557 +1 $\Omega$ .
- 7) Select **Loop+180** on the Loop rocker switch.
- 8) Perform a Loop Impedance test on the Installation tester. This is the impedance of the mains socket and the PowerCheck 1557 +180 $\Omega$ .

### RCD

- 1) Connect PowerCheck 1557 to mains outlet socket.
- 2) Select either the **10mA**, **30mA**, or **100mA** position on the PowerCheck 1557.
- 3) Select the same test current on the Installation tester
- 4) Start the RCD test on the Installation tester.
- 5) The PowerCheck is capable of check the  $x0.5I_{\Delta n}$ ,  $I_{\Delta n}$  and  $5I_{\Delta n}$



## POWERCHECK 1557

### Quick Reference Operating Guide

### Insulation Measurement

- 1) Connect the PowerCheck 1557 to a mains outlet socket.
- 2) Select the **250V** range on the PowerCheck 1557.
- 3) Connect the Installation tester between the **COMMON** and **0.25M $\Omega$**  test terminals. Start 250V Insulation test, the tester should indicate a reading of  $0.25\text{M}\Omega \pm 30\%$ . **In** and **Un** LEDs are illuminated indicating voltage and current outputs are correct.
- 4) You can also test that the 250V Insulation test is in specification at both the **0.5M $\Omega$**  and **1.0M $\Omega$**  test points.
- 5) Select the **500V** range on the PowerCheck 1557.
- 6) Connect the Installation tester between the **COMMON** and **0.5M $\Omega$**  test terminals. Start 500V Insulation test, the tester should indicate a reading of  $0.5\text{M}\Omega \pm 30\%$ . **In** and **Un** LEDs are illuminated indicating voltage and current outputs are correct.
- 7) You can also test that the 500V Insulation test is in specification at both the **0.25M $\Omega$**  and **1.0M $\Omega$**  test points.
- 8) Select the **1000V** range on the PowerCheck 1557.
- 9) Connect the Installation tester between the **COMMON** and **1.0M $\Omega$**  test terminals. Start 1000V Insulation test, the tester should indicate a reading of  $1.0\text{M}\Omega \pm 30\%$ . **In** and **Un** LEDs are illuminated indicating voltage and current outputs are correct.
- 10) You can also test that the 1000V Insulation test is in specification at both the **0.25M $\Omega$**  and **0.5M $\Omega$**  test points.

### PAT Verification

- 1) Connect the PowerCheck 1557 mains plug into the mains outlet socket on the PAT tester.
- 2) **Earth Bond** Connect one end of the earth bond probe to the PAT tester and clip the other end to the appropriate resistance value stud. Perform an earth bond test. The PAT tester will indicate the test measurement taken.
- 3) **Insulation** The Insulation test points are selected by moving the link between the 4 red test terminals. (See Figure 1, Figure 2 and Figure 3). Select the value required and perform an Insulation test. The PAT tester will indicate the test measurement taken.
- 4) **Class I Flash Test** The Class I Flash test points are selected by moving the link between the 4 red test terminals (see Figure 1, Figure 2 and Figure 3). The value selected is referenced to a table printed in the lid of the PowerCheck 1557. Select the test current required and perform a Flash test. The PAT tester will indicate the test measurement taken.
- 5) **Class II Flash Test** Disconnect the black link which is used to select the Class I Flash current test value. Connect the Flash probe to the PAT tester and to the Flash CL II terminal on the front of the PowerCheck 1557 (see Figure 4). Perform a Flash test, the PAT tester will indicate the test measurement taken which is used for verification of functionality only.
- 6) **PE Current Test** The PE currents are selected by moving the link between the 4 red test terminals (see Figure 1, Figure 2 and Figure 3). The value selected is referenced to a table printed in the lid of the PowerCheck 1557. Select the test current required and perform a Leakage test. The PAT tester will indicate the test measurement taken.
- 7) **Touch Current Test** Disconnect the black link which is used to select the PE current test value. Connect the PAT Touch current probe to one of the 3 red test terminals (see Figure 5, Figure 6 and Figure 7). The value selected is referenced to a table printed in the lid of the PowerCheck 1557. The PAT tester will indicate the test measurement taken.

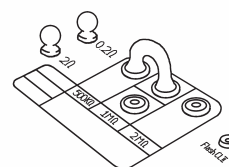


Figure 1

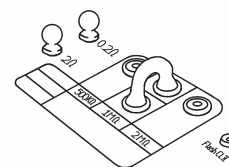


Figure 2

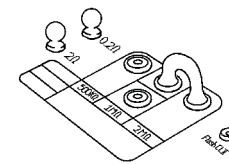


Figure 3

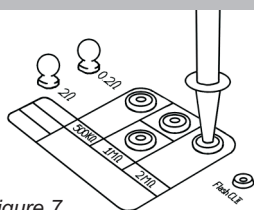


Figure 7

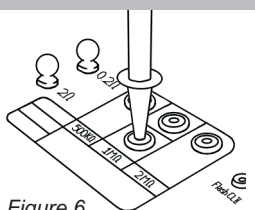


Figure 6

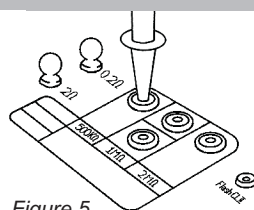


Figure 5

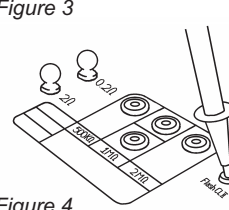


Figure 4