

PAT400 Series Standard Test Groups

Test Group	Usage	Test Applied	Pass Limit	Test Duration	Used in
SC1	Standard Class 1 Earthed equipment	Visual inspection Earth bond at 10 A Insulation test at 500 V Operation test (230 V) Differential earth leakage (230 V)	$\leq 0.1 \Omega$ $\geq 2 \text{ M}\Omega$ $\leq 3000 \text{ VA}$ $\leq 3.5 \text{ mA}$	5 s 5 s 5 s 5 s	PAT420 PAT450
SC1-RCD	Standard Class 1 Earthed equipment with RCD protection	Visual inspection Earth bond at 10 A Operation test (230 V) Differential earth leakage (230 V) RCD 30 mA test	$\leq 0.1 \Omega$ $\leq 3000 \text{ VA}$ $\leq 3.5 \text{ mA}$	5 s 5 s 5 s	PAT420 PAT450
SC1B	Standard Class 1 Earthed equipment 200 mA continuity test	Visual inspection Earth continuity Insulation test at 500 V Operation test (230 V) Differential earth leakage (230 V)	$\leq 0.1 \Omega$ $\geq 2 \text{ M}\Omega$ $\leq 3000 \text{ VA}$ $\leq 3.5 \text{ mA}$	5 s 5 s 5 s 5 s	PAT410 PAT420 PAT450
SC1B-RCD	Standard Class 1 Earthed equipment with RCD protection 200 mA continuity test	Visual inspection Earth continuity Operation test (230 V) Differential earth leakage (230 V) RCD 30 mA test	$\leq 0.1 \Omega$ $\leq 3000 \text{ VA}$ $\leq 3.5 \text{ mA}$	5 s 5 s 5 s	PAT410 PAT420 PAT450
SC2	Typical Class 2 Double insulated	Visual inspection Insulation test at 500 V Operation test (230 V) Differential earth leakage (230 V)	$\geq 7 \text{ M}\Omega$ $\leq 3000 \text{ VA}$ $\leq 0.5 \text{ mA}$	5 s 5 s 5 s	PAT410 PAT420 PAT450
TO1	110 V Tools Earthed equipment	Visual inspection Earth bond at 25 A Insulation test at 500 V Operation test (110 V) Differential earth leakage (110 V)	$\leq 0.1 \Omega$ $\geq 2 \text{ M}\Omega$ $\leq 1800 \text{ VA}$ $\leq 3.5 \text{ mA}$	5 s 5 s 5 s 5 s	PAT420_UK PAT450_UK
TO1F	110 V Tools Class 1 + Flash Earthed equipment	Visual inspection Earth bond at 25 A Insulation test at 500 V Operation test (110 V) Differential earth leakage (110 V) Flash test at 1500 V	$\leq 0.1 \Omega$ $\geq 2 \text{ M}\Omega$ $\leq 1800 \text{ VA}$ $\leq 3.5 \text{ mA}$ $\leq 3 \text{ mA}$	5 s 5 s 5 s 5 s User controlled	PAT450_UK
TO2	110 V Tools Double Insulated	Visual inspection Insulation test at 500 V Operation test (110 V) Differential Earth Leakage (110 V)	$\geq 7 \text{ M}\Omega$ $\leq 1800 \text{ VA}$ $\leq 0.5 \text{ mA}$	5 s 5 s 5 s	PAT420_UK PAT450_UK
TO2F	110 V Tools Class 2 + Flash Double Insulated	Visual inspection Insulation test at 500 V Operation test (110 V) Differential Earth Leakage (110 V) Flash test at 3000 V	$\geq 7 \text{ M}\Omega$ $\leq 1800 \text{ VA}$ $\leq 0.5 \text{ mA}$ $\leq 0.5 \text{ mA}$	5 s 5 s 5 s User controlled	PAT450_UK
FAN	Desk fan Double insulated	Visual inspection Insulation test at 500 V Operation test (230 V) Differential earth leakage (230 V)	$\geq 7 \text{ M}\Omega$ $\leq 200 \text{ VA}$ $\leq 0.5 \text{ mA}$	5 s 5 s 5 s	PAT410 PAT420 PAT450
PC	Personal computer IT equipment	Visual inspection Earth continuity Operation test (230 V) Differential earth leakage (230 V)	$\leq 0.1 \Omega$ $\leq 500 \text{ VA}$ $\leq 3.5 \text{ mA}$	5 s 5 s 5 s	PAT410 PAT420 PAT450
DRY	Hairdryers Double insulated	Visual inspection Insulation test at 500 V Operation test (230 V) Differential earth leakage (230 V)	$\geq 7 \text{ M}\Omega$ $\leq 1500 \text{ VA}$ $\leq 0.5 \text{ mA}$	5 s 5 s 5 s	PAT410 PAT420 PAT450
KET	Kettles Earthed	Visual inspection Earth bond at 25 A Insulation test at 500 V Operation test (230 V) Differential earth leakage (230 V)	$\leq 0.1 \Omega$ $\geq 2 \text{ M}\Omega$ $\leq 2500 \text{ VA}$ $\leq 3.5 \text{ mA}$	5 s 5 s 5 s 5 s	PAT420 PAT450
KETB	Kettles Earthed 200mA continuity test	Visual inspection Earth continuity Insulation test at 500 V Operation test (230 V) Differential earth leakage (230 V)	$\leq 0.1 \Omega$ $\geq 2 \text{ M}\Omega$ $\leq 2500 \text{ VA}$ $\leq 3.5 \text{ mA}$	5 s 5 s 5 s 5 s	PAT410 PAT420 PAT450
EL1	230 V extension leads 3 core	Visual inspection Earth bond at 25 A Insulation test at 500 V Polarity	$\leq 0.5 \Omega$ $\geq 7 \text{ M}\Omega$	5 s 5 s	PAT420 PAT450
EL1B	230 V extension leads 3 core 200mA continuity test	Visual inspection Earth continuity Insulation test at 500 V Polarity	$\leq 0.5 \Omega$ $\geq 7 \text{ M}\Omega$	5 s 5 s	PAT410 PAT420 PAT450
EL2	230 V extension leads 2 core	Visual Inspection Insulation test at 500 V Polarity	$\geq 5 \text{ M}\Omega$	5 s	PAT410 PAT420 PAT450
EL3	110 V extension leads 3 core	Visual Inspection Earth Bond at 25 A Insulation test at 500 V Polarity	$\leq 0.5 \Omega$ $\geq 7 \text{ M}\Omega$	5 s 5 s	PAT420_UK PAT450_UK
EL4	4 way 230 V extension leads 3 core	Visual Inspection Earth Bond at 25 A (x4) Insulation test at 500 V Polarity	$\leq 0.5 \Omega$ $\geq 7 \text{ M}\Omega$	5 s 5 s	PAT420 PAT450
EL4B	4 way 230V extension leads 3 core 200 mA continuity test	Visual Inspection Earth Continuity (x4) Insulation test at 500 V Polarity	$\leq 0.1 \Omega$ $\geq 7 \text{ M}\Omega$	5 s 5 s	PAT410 PAT420 PAT450
RCD	Portable RCD 30mA <small>Called Portable RCD in releases up to 2.01</small>	Visual Inspection RCD 30 mA test			PAT410 PAT420 PAT450
RCD FULL	Portable RCD (5 tests) <small>Called Portable RCD 30mA (5 tests) in releases up to 2.01</small>	Visual Inspection RCD full test sequence			PAT410 PAT420 PAT450