

<b>Power-on test</b>	The test indicates reversed L-N, missing PE, and measures the mains voltage and frequency. <b>Display range:</b> 90 V to 264 V <b>Accuracy at 50 Hz:</b> $\pm (2\% + 3 \text{ counts})$ <b>Resolution:</b> 0.1 V (1 V - model 6200) <b>Input impedance</b> $> 1 \text{ M}\Omega // 2.2 \text{ nF}$ <b>Maximum input mains voltage:</b> 264 V
<b>Earth bond test (<math>R_{pe}</math>)</b>	<b>Display range:</b> 0 to 19.99 $\Omega$ <b>Accuracy (after Bond Test zeroing):</b> $\pm (2.5\% + 4 \text{ counts})$ <b>Resolution:</b> 0.01 $\Omega$ <b>Test current:</b> 200 mA AC $-0\% +40\%$ into 1.99 $\Omega$ 25 A AC $\pm 20\%$ into 25 m $\Omega$ at 230 V <b>Open circuit voltage:</b> $> 4 \text{ V AC}, < 24 \text{ V AC}$ <b>Bond test zeroing:</b> Can subtract up to 1.99 $\Omega$
<b>Insulation test (<math>R_{in}</math>)</b>	<b>Display range:</b> 0 to 299 M $\Omega$ <b>Accuracy:</b> $\pm (5\% + 2 \text{ counts})$ from 0.1 to 300 M $\Omega$ <b>Resolution:</b> 0.01 M $\Omega$ (0 to 19.99 M $\Omega$ ) 0.1 M $\Omega$ (20 to 199.9 M $\Omega$ ) 1 M $\Omega$ (200 to 299 M $\Omega$ ) <b>Test voltage:</b> 500 V dc $-0\% +25\%$ at 500 k $\Omega$ load or (6500-2 only) 250 V dc $-0\% +25\%$ at 250 k $\Omega$ load <b>Test current:</b> $> 1 \text{ mA}$ at 500 k $\Omega$ load, $< 15 \text{ mA}$ at 0 $\Omega$ <b>Auto discharge time:</b> $< 0.5 \text{ s}$ for 1 $\mu\text{F}$ <b>Max. capacitive load:</b> Operational up to 1 $\mu\text{F}$
<b>Touch current test</b>	<b>Display range:</b> 0 to 1.99 mA AC <b>Accuracy:</b> $\pm (4\% + 2 \text{ counts})$ <b>Resolution:</b> 0.01 mA <b>Internal resistance (via probe):</b> 2 k $\Omega$ <b>Measuring method:</b> Probe The appliance under test is energized at mains potential.
<b>Substitute leakage current test</b>	<b>Display range:</b> 0 to 19.99 mA AC <b>Accuracy:</b> $\pm (2.5\% + 3 \text{ counts})$ <b>Resolution:</b> 0.01 mA <b>Test voltage:</b> 100 V AC $\pm 20\%$
<b>Load/Leakage Test: Load current</b>	<b>UK</b> <b>Display range:</b> 0 to 13 A <b>Accuracy:</b> $\pm (4\% + 2 \text{ counts})$ <b>Resolution:</b> 0.1 A The appliance under test is energized at mains potential. <b>AU</b> <b>Display range:</b> 0 A to 10 A <b>Accuracy:</b> $\pm (4\% + 2 \text{ counts})$ <b>Resolution:</b> 0.1 A The appliance under test is energized at mains potential.
<b>Load/Leakage test: Load power</b>	<b>Display range:</b> 230 V mains <b>UK</b> 0.0 VA to 3.2 kVA <b>AU</b> 0.0 VA to 2.4 kVA <b>Accuracy:</b> $\pm (5\% + 3 \text{ counts})$ <b>Resolution:</b> 1 VA (0 to 999 VA), 0.1 kVA ( $> 1.0 \text{ kVA}$ ) The appliance under test is energized at mains potential.
<b>Load/Leakage test: Leakage current</b>	<b>Display range:</b> 0 to 19.99 mA <b>Accuracy:</b> $\pm (4\% + 4 \text{ counts})$ <b>Resolution:</b> 0.01 mA The appliance under test is energized at mains potential.
<b>PELV test</b>	<b>Accuracy at 50 Hz:</b> $\pm (2\% + 3 \text{ counts})$ <b>Overload protection:</b> 300 V rms <b>Warning threshold:</b> 25 V rms

<b>RCD Test: Trip Current (6500-2 only)</b>	Operational error Nominal Accuracy	±10 % 30 mA ±5 %
<b>RCD Test: Trip Time (6500-2 only)</b>	Standard requirement  Operational error RCD type Display range Resolution Accuracy Trip time limit at 100 % (30 mA) Trip time limit at 500 % (150 mA)	61557 Part 6; tolerance of rated test current 0 % to +10 % ±10 % AC General-Purpose 30 mA 310 ms 0.1 ms 3 ms 300 ms 40 ms

<b>Environmental specifications</b>	
<b>Operating temperature</b>	0 to 40 °C
<b>Relative humidity</b>	Non condensing < 10 °C 95 % from 10 to 30 °C 75 % from 30 to 40 °C

<b>Safety specifications</b>	
<b>Safety rating</b>	Complies with EN61010-1 3rd edition CAT II, 300 V, pol 2 German version only: DIN VDE0404-1 and DIN VDE0404-2 IEC/EN 61557, part 1, 2, 4, 6, 10 CAT II, 300 V, pol 2

<b>Mechanical and general specifications</b>	
<b>Size (LxWxH)</b>	200 mm x 275 mm x 114 mm
<b>Weight</b>	3.13 kg
<b>Power supply</b>	230 V +10 % -15 %, 50 Hz ±2 Hz or (6500-2 only: 110V +10 % -15 %, 50 Hz ±2 Hz)
<b>Power consumption (Tester)</b>	13 W typical (idle) 60 W max. during 25A Bond Test
<b>Storage</b>	Temperature: -10 °C to 60 °C Corrosion: 70 °C @ 95 % RH for 5 days max.
<b>Operating altitude</b>	0 up to 2000 m
<b>Sealing</b>	IP-40 (enclosure), IP-20 (connectors)
<b>EMC</b>	Complies with EN61326-1, Portable
<b>EMI immunity</b>	3 V/m