

## Features



- 3-pole Fall-of-Potential earth testing for basic measurements
- 2-pole resistance measurements for added versatility
- Easily capture values with single-button operation
- Ensure accurate measurements with automatic 'noise' voltage detection
- Hazardous voltage warning offers increased user protection
- Clearly read and record data with a large, backlit display
- Rugged holster and design for tough work environments
- Portable size allows for easy transportation
- Instantly be alerted to measurements outside of your set limit, when you use the adjustable limit setting
- 600 V Cat II



## Specifications

General specifications	
<b>Measuring functions</b>	3-pole earth ground resistance, 2-pole ac resistance of a conductor, Interference voltage
<b>Intrinsic error</b>	Refers to the reference temperature range and is guaranteed for one year
<b>Measuring rate</b>	2 measurements/second
<b>Battery[1]</b>	One 9 volt alkaline (LR61)
<b>Battery condition</b>	LO-BAT is displayed if voltage drops below 6.5 V
<b>Voltages</b>	<b>Between jacks H/C2 and E/C1:</b> 250 Veff maximum (effective voltage) <b>Between jacks S/P2 and E/C1:</b> 250 Veff maximum
<b>Climatic class</b>	VDE/VDI 3540 RZ (conforming to KWG as per DIN 40040, 4/87)
<b>Temperature performance[2]</b>	<b>Working:</b> -10 °C to +50 °C (+14 °F to +122 °F) <b>Operating:</b> 0 °C to +35 °C (+32 °F to +95 °F) <b>Storage:</b> -20 °C to +60 °C (+68 °F to +140 °F) <b>Reference:</b> +23 °C ± 2 °C (+73 °F ± 4 °F)
<b>Temperature coefficient</b>	± 0.1 % of range per degree Kelvin
<b>Safety</b>	IEC/EN 61010-1, 600 V CAT II, pollution degree 2
<b>Dimensions</b>	113 mm x 54 mm x 216 mm (4.5 in x 2.1 in x 8.5 in), including holster
<b>Weight</b>	850 g (1.9 lb), including standard accessories, volume approximately 600 cm <sup>3</sup>
<b>Note:</b>	[1]If the tester is not going to be used, or is being stored for a long period, remove the battery and store separately from the tester to avoid damage from battery leakage.
<b>Note:</b>	[2]The four temperature ranges for the tester exists to satisfy European Standards requirements; the instrument can be used over the full working temperature range by using the temperature coefficient to calculate accuracy at the ambient temperature of use.

## Electrical specifications

<b>Maximum deviations:</b>	<b>E<sub>1</sub> Influence factor</b> Position <b>E<sub>1</sub> Deviation influence</b> 0 % <b>E<sub>2</sub> Influence factor</b> Supply voltage <b>E<sub>2</sub> Deviation influence</b> 0 % <b>E<sub>3</sub> Influence factor</b> Temperature E <sub>3</sub> <b>E<sub>3</sub> Deviation influence</b> 2.3 % <b>E<sub>4</sub> Influence factor</b> Serial interference voltage (20 V) <b>E<sub>4</sub> Deviation influence</b> 0.6 % <b>E<sub>5</sub> Influence factor</b> Probe- and auxiliary probe resistance <b>E<sub>5</sub> Deviation influence</b> 10 %
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<b>Test voltage</b>	3.7 kV
<b>Protection type</b>	IP 40; IEC/EN 60529
<b>Electromagnetic compatibility</b>	Emission: IEC/EN 61326 Class B Immunity: IEC/EN 61326 Annex C
<b>R<sub>E</sub> resistance measurement</b>	<p><b>Measuring method</b> Current-voltage measurement with improved cross-talk attenuation, no compensation of measuring lead resistance, with probe (3-pole) or without probe (2-pole), as per IEC/EN 61557-5</p> <p><b>Open circuit voltage</b> 23 to 24 V ac</p> <p><b>Short circuit current</b> &gt; 50 mA ac</p> <p><b>Measuring frequency</b> 128 Hz</p> <p><b>Maximum permissible overload</b> 250 V<sub>eff</sub></p>
<b>Measuring time</b>	8 seconds (average from when START is pressed)
<b>Limit input</b>	Tester retains set value even if instrument is turned off (assuming battery power supply is sufficient)
<b>Automatic changeover of resolution</b>	<p><b>R<sub>H</sub></b> &lt; 7 kΩ <b>Resolution</b> 0.01 Ω</p> <p><b>R<sub>H</sub></b> &lt; 50 kΩ <b>Resolution</b> 0.1 Ω</p> <p><b>R<sub>H</sub></b> &gt; 50 kΩ <b>Resolution</b> 1 Ω</p>
<b>Interference voltage display dc + ac</b>	<p><b>V<sub>max</sub></b> 30 V<sub>eff</sub></p> <p><b>Common mode rejection</b> &gt; 80 dB at 50 Hz and 60 Hz</p> <p><b>R<sub>i</sub></b> 680 kΩ</p> <p><b>Measuring uncertainty</b> &lt; 10 % for pure ac and dc signals</p>

Measuring range	
<b>0.15 Ω to 20 Ω</b>	<p><b>Resolution</b> 0.01 Ω</p> <p><b>Display range</b> 0 to 19.99 Ω</p>
<b>200 Ω</b>	<p><b>Resolution</b> 0.1 Ω</p> <p><b>Display range</b> 20 to 199.9 Ω</p>
<b>2 kΩ</b>	<p><b>Resolution</b> 1 Ω</p> <p><b>Display range</b> 200 to 1999 Ω</p>
<b>Intrinsic uncertainty</b>	± (6 % of measured value + 5D)
<b>Operating uncertainty IEC 61557[1]</b>	± (18 % of measured value + 5D)
<b>Notes:</b>	<p>[1] Covers all deviations caused by influence quantities E<sub>1</sub>-E<sub>5</sub>. If the deviation E<sub>4</sub> caused by high probe or auxiliary probe resistance is higher than specified flashes. Measured values are outside of the specified operating uncertainty.</p>
<b>Fluke 1621 Kit</b>	<p>Kit, Basic Earth Ground Tester</p> <p>Includes:</p> <ul style="list-style-type: none"> <li>● Fluke 1621 Tester</li> <li>● 2 cable reels with wire (1-50m, 1-25m)</li> <li>● 3 earth ground stakes</li> <li>● 1 Test lead (red and black 2m)</li> <li>● 2 Alligator Clips</li> <li>● Batteries</li> <li>● Users manual</li> <li>● Hard carrying case</li> </ul>