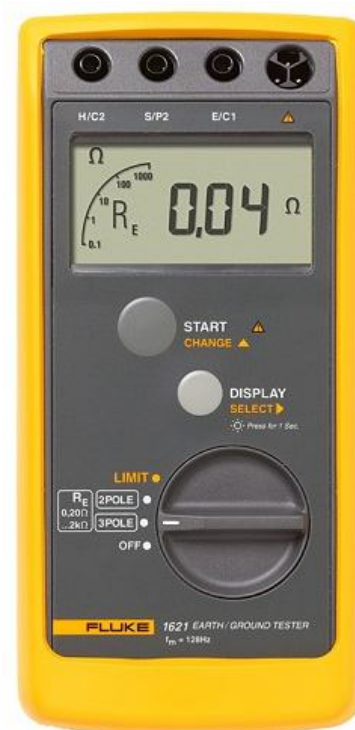


Features



- 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

Measuring functions	3-pole earth ground resistance, 2-pole ac resistance of a conductor, Interference voltage
Intrinsic error	Refers to the reference temperature range and is guaranteed for one year
Measuring rate	2 measurements/second
Battery[1]	One 9 volt alkaline (LR61)
Battery condition	LO-BAT is displayed if voltage drops below 6.5 V
Voltages	Between jacks H/C2 and E/C1: 250 V _{eff} maximum (effective voltage) Between jacks S/P2 and E/C1: 250 V _{eff} maximum
Climatic class	VDE/VDI 3540 RZ (conforming to KWC as per DIN 40040, 4/87)
Temperature performance[2]	Working: -10 °C to +50 °C (+14 °F to +122 °F) Operating: 0 °C to +35 °C (+32 °F to +95 °F) Storage: -20 °C to +60 °C (+68 °F to +140 °F) Reference: +23 °C ± 2 °C (+73 °F ± 4 °F)
Temperature coefficient	± 0.1 % of range per degree Kelvin
Safety	IEC/EN 61010-1, 600 V CAT II, pollution degree 2
Dimensions	113 mm x 54 mm x 216 mm (4.5 in x 2.1 in x 8.5 in), including holster
Weight	850 g (1.9 lb), including standard accessories, volume approximately 600 cm ³
Note:	[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.
Note:	[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

Maximum deviations:	E₁ Influence factor Position E₁ Deviation influence 0 % E₂ Influence factor Supply voltage E₂ Deviation influence 0 % E₃ Influence factor Temperature E ₃ E₃ Deviation influence 2.3 % E₄ Influence factor Serial interference voltage (20 V) E₄ Deviation influence 0.6 % E₅ Influence factor Probe- and auxiliary probe resistance E₅ Deviation influence 10 %
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Test voltage	3.7 kV
Protection type	IP 40; IEC/EN 60529
Electromagnetic compatibility	Emission: IEC/EN 61326 Class B Immunity: IEC/EN 61326 Annex C
R_E resistance measurement	<p>Measuring method 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>Open circuit voltage 23 to 24 V ac</p> <p>Short circuit current > 50 mA ac</p> <p>Measuring frequency 128 Hz</p> <p>Maximum permissible overload 250 V_{eff}</p>
Measuring time	8 seconds (average from when START is pressed)
Limit input	Tester retains set value even if instrument is turned off (assuming battery power supply is sufficient)
Automatic changeover of resolution	<p>R_H < 7 kΩ Resolution 0.01 Ω</p> <p>R_H < 50 kΩ Resolution 0.1 Ω</p> <p>R_H > 50 kΩ Resolution 1 Ω</p>
Interference voltage display dc + ac	<p>V_{max} 30 V_{eff}</p> <p>Common mode rejection > 80 dB at 50 Hz and 60 Hz</p> <p>R_i 680 kΩ</p> <p>Measuring uncertainty < 10 % for pure ac and dc signals</p>

Measuring range	
0.15 Ω to 20 Ω	Resolution 0.01 Ω Display range 0 to 19.99 Ω
200 Ω	Resolution 0.1 Ω Display range 20 to 199.9 Ω
2 kΩ	Resolution 1 Ω Display range 200 to 1999 Ω
Intrinsic uncertainty	± (6 % of measured value + 5D)
Operating uncertainty IEC 61557[1]	± (18 % of measured value + 5D)
Notes:	[1] Covers all deviations caused by influence quantities E ₁ -E ₅ . If the deviation E ₄ caused by high probe or auxiliary probe resistance is higher than specified flashes. Measured values are outside of the specified operating uncertainty.

Fluke 1621	<p>Earth Ground Tester 1621 includes:</p> <ul style="list-style-type: none"> • Users manual • Two measuring leads with alligator clips, 2 m (6 ft) • One battery, 9 V alkaline (LR61) • One protective holster, yellow • One CD-ROM
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