# Fluke 1621 Basic Earth Ground Tester

Earth ground tester for resistance measurement



Hand-held Earth Ground Tester for resistance measurement

The Fluke 1621 is an easy-to-use earth ground tester. For ground resistance testing, the 1621 is the first line of defence in detecting reliable ground connections. The unit features basic ground testing methods including 3-pole Fall-of-Potential as well as 2-pole ground resistance tests. Its convenient size, rugged holster, and large, clear LCD display make it an ideal field earth ground tester, for most electrical grounding work environments. With a simple user interface and intuitive functionality, the Fluke 1621 is a handy grounding tool for electrical contractors, utility test engineers, and earth ground specialists.

- 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
- Instantly be alerted to measurements outside of your set
- limit, when you use the adjustable limit setting Safety rating CAT II 600 V

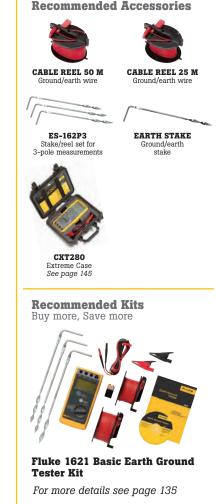
## **Specifications**

Measuring functions			
Intrinsic error	voltage		
	Refers to the reference temperature range and is guaranteed for one year		
Measuring rate	2 measurements/second		
Battery	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 Veff maximum (effective voltage) Between jacks S/P2 and E/C1: 250 Veff maximum		
Climatic class	VDE/VDI 3540 RZ (conforming to KWG as per DIN 40040, 4/87)		
Temperature performance	Working: -10 °C to +50 °C Operating: 0 °C to +35 °C Storage: -20 °C to +60 °C		
Temperature coefficient	± 0.1 % of range per degree Kelvin		
Size	113 mm x 54 mm x 216 mm including holster		
Weight	850 g including standard accessories, volume approximately 600 cm <sup>3</sup>		

Note: 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. 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. These products are for unpowered installations measuring grounding connections.

Maximum deviations				
Parameter	Influence Factor	Influence Factor		
E <sub>1</sub>	Position	Position		
E <sub>2</sub>	Supply Voltage	Supply Voltage		
E <sub>3</sub>	Temperature E <sub>3</sub>	Temperature E <sub>3</sub>		
E4	Serial interference vo	Serial interference voltage (20 V)		
E <sub>s</sub>	Probe and auxiliary p	Probe and auxiliary probe resistance		
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, Resistance Measurement 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 Open circuit voltage 23 to 24 V AC > 50 mA AC Short circuit current 128 Hz Measuring frequency 250 Veff Maximum permissible overload



## **Included Accessories**

Fluke-1621: Two Measuring Leads with Alligator Clips - 2 m, Protective Holster, User Manual and CD.

Fluke-1621 Kit: 2 Cable Reels with Wire (1-50 m, 1-25 m), 3 Earth Ground Stakes, 1 Test Lead (red and black 2 m), 2 Alligator Clips, Batteries, User Manual, Hard Carrying Case.

## **Ordering Information**

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-1621	Basic GEO Earth Ground Tester
-1621 KIT	Basic GEO Earth Ground Tester Kit

Contact your local distributor for price and availability. www.fluke.com/my/wtb

