1021	Earth Groui	lu lestei	
<b>General specifica</b>	ations		
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: Between jacks S/P2 and E/C1:	<ul><li>250 Veff maximum (effective voltage)</li><li>250 Veff maximum</li></ul>	
Climatic class	VDE/VDI 3540 RZ (conforming to KWG as per DIN 40040, 4/87)		
Temperature performance[2]	Working: $-10 \ ^{\circ}C \ to +50 \ ^{\circ}C \ (+14 \ ^{\circ}F \ to +122 \ ^{\circ}F)$ Operating: $0 \ ^{\circ}C \ to +35 \ ^{\circ}C \ (+32 \ ^{\circ}F \ to +95 \ ^{\circ}F)$ Storage: $-20 \ ^{\circ}C \ to +60 \ ^{\circ}C \ (+68 \ ^{\circ}F \ to +140 \ ^{\circ}F)$ Reference: $+23 \ ^{\circ}C \pm 2 \ ^{\circ}C \ (+73 \ ^{\circ}F \pm 4 \ ^{\circ}F)$		
Temperature coefficient	$\pm 0.1$ % 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 $600 \text{ cm}^3$		
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.		
<b>Electrical specifi</b>	cations		
Maximum deviations:	$E_1$ Deviation influence0.9 $E_2$ Influence factorSu $E_2$ Deviation influence0.9 $E_3$ Influence factorTe $E_3$ Deviation influence2.3 $E_4$ Influence factorSe $E_4$ Deviation influence0.0	pply voltage % mperature E <sub>3</sub> 3 % rial interference voltage (20 V) 5 % obe- and auxiliary probe resistance	
Test voltage	3.7 kV		
Protection type	IP 40; IEC/EN 60529		
Electromagnetic	Emission: IEC/EN 61326 Class B		

## Fluke 1621 Earth Ground Tester

compatibility	Immunity: IEC/EN 61326 Annex C			
R <sub>E</sub> resistance measurement	Measuring method Open circuit voltage Short circuit			
	current Measuring			
	frequency Maximum	250 Veff		
	permissible overload	250 ven	1	
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	$R_H$ < 7 k\Omega           Resolution         0.01 $\Omega$ $R_H$ < 50 k\Omega           Resolution         0.1 $\Omega$ $R_H$ > 50 k\Omega           Resolution         1 $\Omega$			
Interference voltage display dc + ac	Vmax $30 \text{ Veff}$ Common mode rejection> $80 \text{ dB}$ at 50 Hz and 60 HzRi $680 \text{ k}\Omega$ Measuring uncertainty< $10 \%$ for pure ac and dc signals			
Measuring range				
0.15 Ω to 20 Ω	Resolution Display range	0.01 Ω 0 to 19.99	Ω	
200 Ω	Resolution         0.1 Ω           Display range         20 to 199.9 Ω			
2 kΩ	Resolution Display range	1 Ω 200 to 1999 Ω		
Intrinsic uncertainty	$\pm$ (6 % of measured value + 5D)			
Operating uncertainty IEC 61557[1]	$\pm$ (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.			