

Earth Ground and Electrical Tester

➤ **Fluke 1630-2 FC Earth Ground Clamp**

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1. Fluke 1630-2 FC Earth Ground Clamp



➤ Key Features

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- Test the grounding components of equipment in hard-to-reach spaces, including areas that are indoors or fully paved and do not permit driving auxiliary test stakes.
- AC Leakage Current Measurement: Identify AC leakage without disconnecting your earth ground stake from the grounding system
- Rugged: Heavy-duty clamp jaw stays in alignment and calibration on tough jobsites
- Logging measurement: Saves up to 32,760 measurements in memory

Specifications: Fluke 1630-2 FC Earth Ground Clamp

Electrical Specifications

Maximum voltage to earth ground	1000 V	
Battery type	AA alkaline IEC/EN LR6 (x4)	
Battery life	More than 15 hours*	
* In Ground Resistance measurement mode, with backlight turned off, and RF mode turned off		
Frequency range	40 Hz to 1 kHz	
Ingress protection	IEC/EN 60529: IP30 with jaw closed	
LCD	Digital reading	9999 counts
	Refresh rate	4 per second

Operating temperature	-10 °C to + 50 °C	
Storage temperature	-20 °C to + 60 °C	
Operating humidity	Non condensing (<10 °C) (< 50 °F)	
	≤90% RH (at 10 °C to 30 °C [50 °F to 86 °F])	
	≤75% RH (at 30 °C to 40 °C [86 °F to 104 °F])	
	≤45% RH (at 40 °C to 50 °C [104 °F to 122 °F])	
	(Non condensing)	
Operating altitude	2000 m (6561 feet)	
Storage altitude	12 000 m (39,370 feet)	
Reference temperature	23 °C ±5 °C (73 °F ±9 °F)	
Temperature coefficient	0.15% x (specified accuracy)/ °C (<18 °C or >28 °C [<64.4 °F or >82.4 °F])	
Overload indication	OL	
Data logging capacity	Minimum of 32,760 measurements	
Data logging interval	1 second to 59 minutes and 59 seconds	
Display reading specification with standard loop resistance		
Input (Ω)	Minimum	Maximum
0.474	0.417	0.531
0.5	0.443	0.558
10	9.55	10.45
100	96	104
Safety		

General	IEC/EN 61010-1: Pollution Degree 2 IEC/EN 61557-1	
Measurement	IEC/EN 61010-2-032: CAT IV 600 V / CAT III 1000 V	
Current clamp for leakage current measurements	IEC/EN 61557-13: Class 2, ≤30 A/m	
Resistance to earth	IEC/EN 61557-5	
Effectiveness of the Protective measures	IEC/EN 61557-16	
Electromagnetic compatibility (EMC)	International	IEC/EN 61326-1: Portable Electromagnetic Environment
		CISPR 11: Group 1, Class B, IEC/EN 61326-2-2
	Korea (KCC)	Class A equipment (Industrial Broadcast & Communications Equipment)
	USA (FCC)	47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103
Wireless Radio		
Frequency range	2412 MHz to 2462 MHz	
Output power	<10 mW	
Radio frequency certification	FCC ID:T68-FBLE IC:6627A-FBLE	
General Specifications		
Conductor size	40 mm (1.57 in) approximately	
Dimensions (L x W x H)	283 x 105 x 48 mm (11.1 x 4.1 x 1.9 in)	
Weight	880g (31 oz)	
Warranty	One year	

Earth Ground Loop Resistance

Range	Accuracy ¹ \pm (% of reading + Ω)
0.025 Ω to 0.249 Ω	1.5% + 0.02 Ω
0.250 Ω to 0.999 Ω	1.5% + 0.05 Ω
1.000 Ω to 9.999 Ω	1.5% + 0.10 Ω
10.00 Ω to 49.99 Ω	1.5% + 0.30 Ω
50.00 Ω to 99.99 Ω	1.5% + 0.50 Ω
100.0 Ω to 199.9 Ω	3.0% + 1.0 Ω
200.0 Ω to 399.9 Ω	5.0% + 5.0 Ω
400 Ω to 599 Ω	10.0% + 10 Ω
600 Ω to 1500 Ω	20.00%

¹ Loop resistance with no inductance, conductor centered and perpendicular to jaw

Earth ground leakage current mA

Autorange 50/60 Hz, True rms, crest factor CF ≤ 3

Range	Resolution	Accuracy ¹ \pm (% of reading + mA)
0.200 mA to 3.999 mA	1 μ A	2.0% + 0.05 mA
4.00 mA to 39.99 mA	10 μ A	2.0% + 0.03 mA
40.0 mA to 399.9 mA	100 μ A	2.0% + 0.3 mA
0.400 A to 3.999 A	1 mA	2.0% + 3 mA
4.00 A to 39.99 A	10 mA	2.0% + 30 mA

¹ Applies to signal frequency

- 40 Hz to 1 kHz with filter set to OFF

- 40 Hz to 70 Hz with filter se to ON