

數位接地電阻計

DIGITAL EARTH RESISTANCE TESTER

- 可量測接地電阻和接地電壓，以確保建物、機器、設備、人員的安全。
- 2mA 電流驅動量測。
- 可作三線式或二線式的簡易量測。
- 0Ω 調整歸零設計。
- 具讀值鎖定功能。
- 電源大小指示。
- 通過歐洲安全規範檢驗 IEC/EN 61010-1 CAT III 200V。
- 請使用提供的測線量測。



CE

1120 ER

電氣規格(23±5°C ≤ 85%RH)

量測檔位	接地電阻：0-20 / 0-200 / 0-2000 Ω 接地電壓：0-200V AC(40-500Hz)
容許誤差	接地電阻：±(2%讀值+2 位數)或±0.1Ω 接地電壓：±(1%讀值+2 位數)
解析度	0-20Ω(0.01Ω) / 0-200Ω(0.1Ω) / 0-2000Ω(1Ω)
量測頻率及電流	820Hz / 2mA
液晶顯示器	3-1/2 位(2000 counts)
斷路指示	LED 燈不亮
電池電力不足指示	
數值鎖定指示	HOLD
過載指示	1
外形尺寸	175(長) x 85(寬) x 75(高)mm
重量	約 600 克(含電池)
附件	測試線 x1(組)：紅色-15 公尺·黃色-10 公尺·綠色-5 公尺 輔助接地棒 x2(支) 簡易測試線 x1(條) 說明書 x1(本) 肩帶 x1(條)

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The **1120 ER** is a "professional instrument". The instrument is suitable for the testing of single earth electrodes such as lightning conductors and other small earthing systems. The resistance of conductors such as continuity and conduit coupling joints can also be measured. Two-terminal operation measurement, which reduces the accuracy, can also be done by shorting P and C terminals.

Earth resistance can be measured directly from 0.01 ohms up to 1999 ohms. The reading is displayed on a large, easy-to-read digital display. It is available to adjust to 0Ω ADJ. Control to set reading of zero.

The **1120 ER** makes measurements by passing a constant current through the device under test (generally a conductor or low resistance) and measuring the voltage across it. The earth resistance is then calculated by Ohm's Law.



It has an advanced circuit design that permits the instrument to operate with the minimum influence from earth voltage and earth resistance of the auxiliary spikes. This superb instrument is powered by 8 x 1.5 volt manganese-alkaline AA batteries. The calibration of the instrument is performed with the included test leads. Therefore, when using the supplied test leads, the accuracy does not suffer of the three-terminal method of measurement for the most common applications.

The test frequency of 820Hz has been chosen to avoid stray currents at power frequencies and their harmonics. However, the **1120 ER** has a built-in filter to reject unwanted signals. The batteries are constantly being checked while in use. The case is ideal for outdoor work. With the **1120 ER**, earth electrode testing, which is an important part of electrical installation and maintenance procedure, is made easy. The **1120 ER** can be used by the electrical contractor or maintenance engineer to check the effectiveness of their type of earth electrode systems.

FEATURES

- Capable of measuring earth voltage.
- 2mA measuring current permits earth resistance tests without tripping earth leakage current breakers in the circuit under test.
- In addition to facilitating for precision measurement, test leads for simplified two-wire measuring system also are supplied as standard accessories.
- 0Ω adjustment.
- Data hold function.
- Battery operated.
- Battery life indicator.
- Standard Accessories for 3T and 2T.
- Designed to meet IEC/EN 61010-1 CAT III 200V.
- Calibration performed with supplied test leads.

SPECIFICATIONS

Measuring Ranges	Earth Resistance 0-20Ω/0-200Ω /0-2000Ω Earth Voltage 0-200V AC (40-500Hz)
Accuracy	Earth Resistance ±(2% rdg+2dgt) or ±0.1%, which is greater Earth Voltage ±(1% rdg+2dgt)
Earth Resistance Resolution	0-20 Ω (0.01 Ω) 0-200 Ω (0.1 Ω) 0-2000 Ω (1 Ω)
Measuring System	Earth Resistance by constant current inverter 820Hz approx. 2mA.
Display	LCD 3-1/2digit(2000 counts)
Open Circuit Indication	LED will be unlit
Low Battery Indication	" " symbol appears on the display
Data Hold Indication	" " symbol appears on the display
Over Range Indication	"1" (MSD)
Power Source	1.5V SUM-3 (R6P) x 8. or equivalent
Dimensions	175(L) x 85(W) x 75(D)mm
Weight	Approx. 600g(battery included)
Accessories	Test leads (red-15m yellow-10m green-5m) Auxiliary earth spikes. Simplified measurement probe Shoulder belt Instruction manual Batteries

