

TL-6e

Tellurometer



Description

The **TL-6e** tellurometer is a microprocessor-controlled digital instrument, developed to perform earth resistance and resistivity measurements (using the Wenner method).

The **TL-6e** is a fully automatic and very easy to use unit. Before starting a measurement, the unit controls whether the conditions of the installation are within the proper limits, notifying the user of any anomaly (too high interference voltages, very low test current, etc.). To optimise the earthed test, the **TL-6e** lets you choose two frequencies to generate the test current (270 Hz or 1470 Hz). The instrument has 4 ranges to measure resistance, covering measurements from 0.01 Ω to 20 k Ω .

Applications

This instrument is ideal for measuring earthing systems in substations, industries, power distribution lines, etc. in accordance with **IEC 61557-5**. It is also useful for measuring the specific resistivity of soil, in order to optimise earthing system projects.

Accessories

- 4 auxiliary copper-plated electrodes (50 cm)
- Power supply source 95 ... 240 V. Battery charger.
- USB communication cable
- Coil with 40 m cable (red)
- Coil with 20 m cable (blue)
- Coil with 20 m cable (green)
- 5 m short cable (black)
- 5 m short cable (green) for connection to unknown electrode.
- 5 kg accessory bag

Technical features

Power Supply Features	Rechargeable internal battery (sealed)	12 V – 3 A·h, LFP
	Insulation / Pollution Degree	Class II / 2
	Overvoltage protection	Category II
Measurement Features	Resistance (Auto range)	0 ... 20 Ω 0 ... 200 Ω 0 ... 2000 Ω 0 ... 20 k Ω
	Resistivity	0 ... 50 k Ω m
	Voltage	0 ... 60 V _{ac}
	Frequency	270 ... 1470 Hz
	Accuracy	in Resistance and Resistivity R \leq 2 k Ω - 2% of the average value \pm 2 digits R > 2 k Ω - 5% of the average value \pm 2 digits
		in Voltage \pm 3% of the average value \pm 2 digits
	resolution	in Resistance 0.01 Ω in Resistivity 0.01 Ω m in Voltage 0.1 V
Communications	Serial data output	USB, connecting cable supplied
	Wireless	Bluetooth
	Management Software	Available, CIRLogger
Environmental conditions	Printer	Built-in
	Operating temperature	-10 ... 50°C
	Storage temperature	-25 ... 65°C
	Relative humidity	95% (without condensation)
	Maximum altitude	3000 m
Build features	Dimensions	274 x 250 x 124 mm
	Weight	3 kg
	Protection Degree	IP 54
Standards	IEC 61010 -1	

References

Type	Code	Description
TL-6e	P60622A000000	Tellurometer 4 lines