

Digital Earth Resistance Tester GT5105A

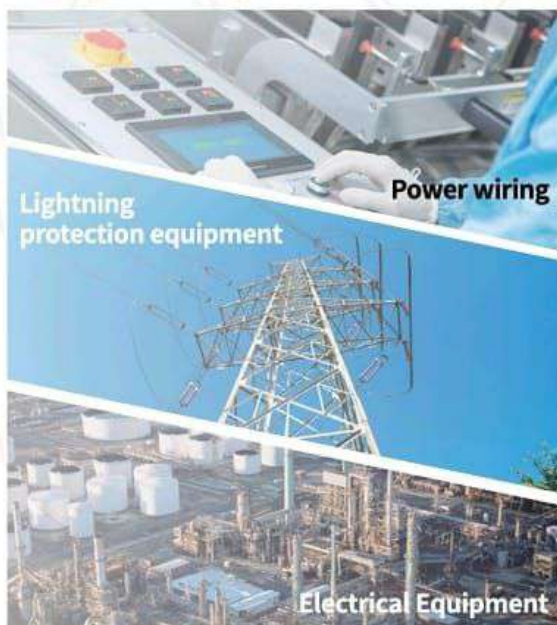


This instrument is controlled by intelligent microcontroller chip, with high accuracy and high reliability; it can be used to measure grounding resistance of various power facilities wiring, electrical equipment, lightning protection equipment and other grounding devices, and it can also measure ground voltage.

Function

- ▶ Backlight and battery detection function
- ▶ Data holding
- ▶ "OL" stands for over range
- ▶ Double insulation or reinforced insulation safety structure
- ▶ When measuring ground resistance, if C or E end of test lead is not in good contact, "— Ω" warning appears on LCD
- ▶ It can be used for precise three-wire measurement or simple two-wire measurement

Application



Specification

- ▶ Measurement range and measurement error (under condition of 20°C + 5°C and ≤75%RH)

Basic Function	Range	Accuracy	Resolution
Ground resistance	20Ω	±(2%+10)	0.01Ω
	200Ω	±(2%+3)	0.1Ω
	2000Ω	±(2%+3)	1Ω
	2000Ω (two wires)	±(2%+5)	1Ω
Ground voltage	200V	±(2%+5)	0.1V

Auxiliary grounding resistance 500Ω, error +5%, grounding voltage ≤10V AC

- ▶ Application standard:

IEC 61010-1 CAT. III 600V Pollution degree 2

CAT. I 5000V Pollution degree 2

IEC 61326-1 (EMC standard)

IEC 60529 (IP40)

- ▶ Measurement method:

Ground voltage measurement	average response
Ground resistance measurement	test signal frequency: about 820Hz, current: 20Ω about 3.2mA

- ▶ Working environment:

temperature	5°C ~ 40°C
Relative humidity	≤80% RH (no fog) Altitudes ≤2000 meters

- ▶ Storage conditions:

temperature	-20 ~ 60 °C
Relative humidity	≤70% RH (no fog)

- ▶ Power supply: 9V power supply [1.5V (No. 5 alkaline battery) * 6]

- ▶ Overload protection:

Ground resistance	200V AC (10 seconds)
Ground voltage	400V AC (30 seconds)

- ▶ Insulation resistance: The insulation resistance between measurement circuit and case is not less than 20MΩ

- ▶ Dimensions: 176mm * 77mm * 110mm



Red alligator clip (with wire)*1



Green alligator clip (with wire)*1



Yellow alligator clip (with wire)*1



Auxiliary ground spike*2

