

# SG5201

## Insulation Resistance Tester



SG5201 Insulation Resistance Tester is a handheld instrument designed primarily to make resistance or insulation resistance measurement.

SG5201 is a digital multipurpose tester intended for testing, analyzing, inspecting and periodic maintaining of any high voltage insulations.

This instrument offers a complete set of functions to measure and detect effectively all parts of current in an insulation system. The instrument can supply an output power of 5W and a test voltage of up to 5000V and therefore measure insulation resistances up to 1T $\Omega$ . Additionally step-up voltage measurement, withstand voltage measurement, AC/DC voltage and frequency measurements up to 600V can be performed.

SG5201 meet the standards GB4706-1 and IEC61010 safety measurement requirement in pollution degree 2, overvoltage category (CAT.III 600V) and double insulation.

### FEATURES

- Insulation Resistance measurement
- ◆ Measuring range up to
- ◆ Programmable timer 1s~
- ◆ Capacitance measurement up to
- ◆ Programmable test voltages 250V~

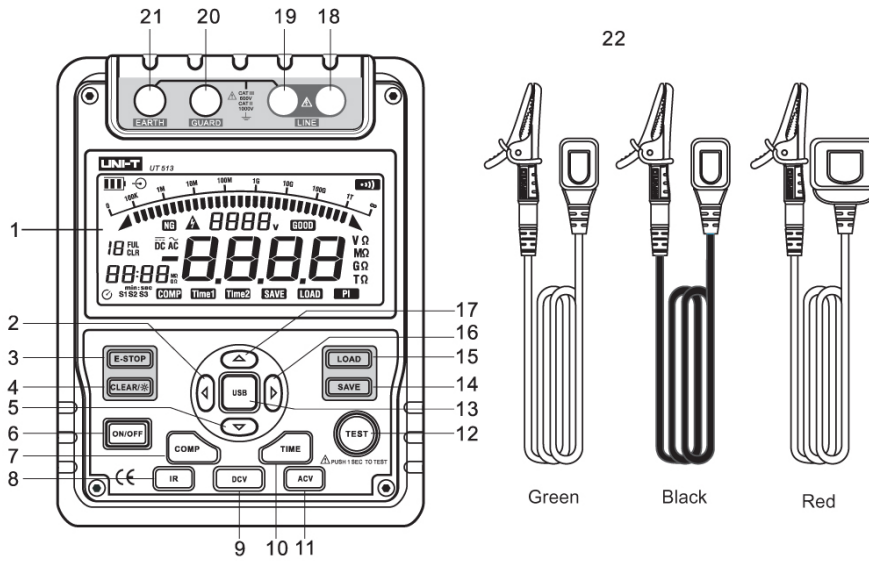
### APPLICATION

- ◆ Power Transformers
- ◆ Distribution Transformers
- ◆ Instrument Transformers
- ◆ Rotating Machines
- ◆ Bushings
- ◆ Cables
- ◆ Surge Arresters
- ◆ Insulation Systems



Test Transformer

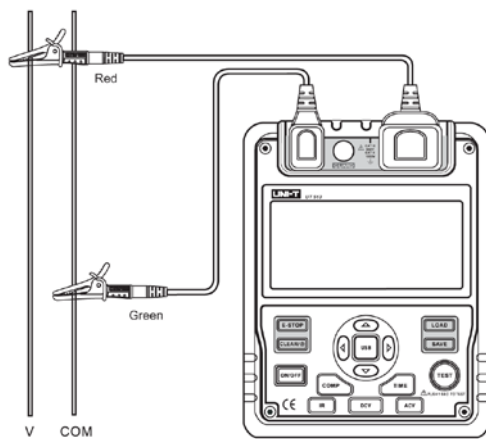
## STRUCTURE



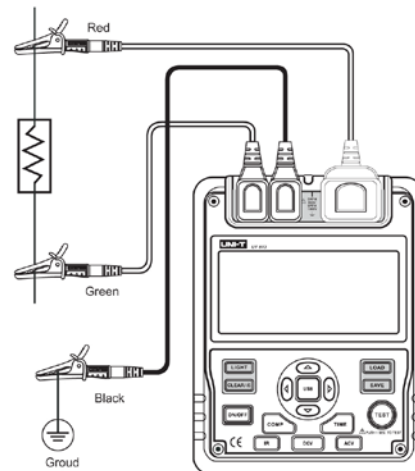
1	LCD
2	◀ Scroll Button
3	Emergency Stop
4	Data Clear the Display Backlight Button
5	▼ Down Button
6	On/Off Button
7	Compare Button
8	Insulation Resistance Button
9	DC Voltages measurement Button
10	Timer Button.
11	AC Voltages measurement Button
12	Test Button
13	USB Button
14	Data Store Button.
15	Data Recall Button
16	▶ Scroll Button

17	▲ Up Button
18	LINE: High Voltage output input terminal (two plugs red test lead to one alligator clip)
19	High voltage line shielding input terminal (two plugs red test lead to one alligator clip)
20	GUARD: Grounding protection input terminal (one plug black test lead to one alligator clip)
21	EARTH: High resistance measurement input terminal (one plug green test lead to one alligator clip)
22	Testing leads: Two plugs red test lead to one alligator clip. One plug black test lead to one alligator clip. One plug green test lead to one alligator clip.

### A. Measuring Voltages



### B. Measuring Insulation Resistance



## Specifications

Basic Functions	Range	Best Accuracy
Insulation Resistance	500kW ~ 10GW	±(5%+5)
	1MW*~1000GW	
Low Resistance	1000W	±(1%+3)
Testing Voltage	100V/250V/500V/1000V	0~20%
	1000V/1500V/2500V/5000V	
DC Voltage	1000V	±(1%+3)
AC Voltage	750V	±(1.5%+3)
Special Functions		
Auto Ranging		✓
Short Circuit Current		<1.3mA
Data Logging		18
Data Recall		✓
Sleep Mode		✓
Polarization index (PI)		✓
Dielectric Absorption(DAR)		✓
Timer	Within 30 minutes	✓
Compare		✓
Battery Display		✓
Display Backlight	EL	✓
Over Range and High Voltage Warning		✓
USB		✓
Max. Display	9999	✓ ✓
Analogue Bar Graph		✓

## General Characteristics

Power	1.5V Alkaline Battery (LR14) x 8
LCD Size	123 mm x 58 mm
Product Color	Grey
Product Net Weight	2kg
Product Size	202 x 155 x 94 mm
Standard Accessories	A pair of one plug test lead to one alligator clip, A pair of two plugs test lead to one alligator clip, Batteries, English Manual, Tool Box, USB Interfac
Optional Accessories*	Power Adapter
Standard Individual Packing	Gift Box
Standard Quantity Per Carton	5 pcs
Standard Carton Measurement	600 x 350 x 320 mm (0.067 CBM Per Standard
Standard Carton Gross Weight	Around 13kg

**For further information please contact:**

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