DIGITAL Sanwa INSULATION RESISTANCE TESTER



DG525

DG525 DG251

Introduction

These instruments are compact, handy high-performance digital insulation tester with an additional AC voltage measuring function.

DG525 & DG251 are in compliance with JIS C1302 1994.

Feature

• Each instrument is capable of switching the test voltages during insulation resistance measurement in the following 2 ranges.

Model DG525 : 500V DC/250V DC Model DG251 : 250V DC/125V DC

- •With both measuring functions, range can be shifted to the optimize range according to the measurement value.
- The auto power OFF turns the power off automatically in about 1 minute after power on even when the user forgets to switch the power off after measurement.
- Backlight in provided for easy readout, even in the dark.
- The data hold feature holds the measurement value.
- •When the built-in batteries run out, the battery alarm display indicates battery replacement timing.

Standard Accessories

- ◆TL-M54 (Test Probe) Red test lead with amber plug (L/ ~ terminal) x 1 Black test lead with black plug (E/ ~ terminal) x 1
- Instruction manual x 1
- Battery 1.5V AA x 6

General Specification

A/D Converter: Operating system: Double integration

Sampling rate: Approx. 2.5samplings/sec.

Display: LCD, max. 1999

Over-input indication: Only the highest digit shows "1".

Measuring terminals: $M\Omega$: E, L ACV: ~, ~

Operating temperature/ $0 \sim 40^{\circ}\text{C}$, <85% RH (with no condensation)

humidity range:

Accuracy guaranteed 15 ~ 30°C, <85% RH (with no condensation)

temperature/humidity range:

Built-in batteries: 1.5V LR6/AA size alkaline batteries (x 6)

Battery life: When power is switched between ON and OFF every minute

in succession, Insulation resistance measurement: Approx. 60 hours

AC voltage measurement: Approx. 250hours

Battery alarm: LCD shows "B" marking when battery voltage drops below 7V.

Auto power OFF time: Approx. 1 minute after power ON

Data hold: Pressing HOLD switch holds measurement value.

Data hold indicator: Yellow LED with 3mm dia.

Back-light lamp: Pressing LIGHT switch lights up LCD backlight (green).

Dimensions & weight: 175 x 115 x 55mm. approx. 0.6kgs.

Measurement range and Accuracy

Insulation Resistance

Rated voltage	DG525	500V DC/250V DC	
	DG251	250V DC/125V DC	
Measuring voltage /current characteristics	When measuring terminals are open,		
	DG525	500V DC range 600V (+20%max)	
		> 500V guaranteed at 500kΩ	
		250V DC range 300V (+20%max)	
		> 250V guaranteed at 250kΩ	
	DG251	250V DC range 300V (+20%max)	
		> 250V guaranteed at 250kΩ	
		125V DC range 150V (+20%max)	
		> 125V guaranteed at 125kΩ	
	When measuring terminals are shorted, Approx. 1.5mA max.		
Measuring ranges	$0~2M\Omega/1~20M\Omega/10~200M\Omega/100~2000M\Omega$, auto range		
Measuring accuracy	$2M\Omega/20M\Omega/200M\Omega$ ranges: Within±(2% of reading+2digits)		
	2000MΩ range: Within±(5% of reading+2digits)		
Applied voltage indication	Red LED with 5mm dia.		

AC Voltage

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Measuring ranges	0 ~ 600V max.
	0 ~ 200V /10 ~ 600V, 2 auto range
Measuring accuracy	Within ±(1% of reading+0.5% of range + 1digit)
	Frequency: 50~400Hz
Input resistance	1ΜΩ

