1000V AC/DC Digital Insulation Resistance Tester

KANE807

1000V AC/DC Digital Insulation Resistance Tester

Functions

- Insulation Resistance 2.0GΩ
- Earth-bond Resistance 20.00kΩ
- 1000V AC/DC
- Resistance 40MΩ
- Frequency 99.99kHz
- Capacitance 10000µF
- Continuity and Diode test
- mAmps
- Temperature: -200˚ to 1350˚C (-328˚ to 2462˚F)

Features

- PI/DAR test
- A-hold/ Hold
- Zero reading
- Lock reading
- Rotary style selector
- Protective rubber boot
- Kick stand
- Test lead holders
- Remote probe
- Auto power off
- Backlit / Worklight
- 1-Year limited warranty

Includes

- Silicone test leads w/ alligator clips (red and black) (ATL57)
- Insulation test probe w/ alligator clips (red)
- K-Type thermocouple
- Soft carrying case
- Batteries (4 AA)
- Manual

RoHS Compliant

600V CAT IV

1000V CAT III

DESIGNED BY MADE BY KANE

Applications

Test for capacitive leakage between conductors
Test for insulation deterioration
Build up of dirt or moisture in motor windings

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Specifications

AC Voltage

RANGE	RESOLUTION	Auccuracy 45HZ to 400Hz ±(% rdg + digits)	Accuracy 400Hz to 5kHZ ±(% rdg + digits
400mV	0.1mV	±(1.0% +5 dgts)	±(2% + 3 dgts)
4V	0.001V		
40V	0.01V		
400V	0.1V		±(2% + 3 dgts)[1]
1000V	1V	±(2% + 3 dgts)	

1.1 kHz bandwidth
Input impedance 10MΩ (nominal), <100pF, AC-coupled
Overload protection 1000V rms or DC

DC Voltage

RANGE	RESOLUTION	Auccuracy 45HZ to 400Hz ±(% rdg + digits)
4V	0.001V	±(0.2% +3 dgts)
40V	0.01V	
400V	0.1V	
1000V	1V	±(0.3% + 6 dgts)

Accuracies apply to 100% of range
Input impedance 10MΩ (nominal), <100pF
Overload protection AC 1000V rms or DC

Continuity

RANGE	RESOLUTION	Accuracy	OVERLOAD PROTECTION
400.0Ω	0.1Ω	Appox. 40Ω	600V

Diode Test

RANGE	RESOLUTION	ACCURACY	OVERLOAD PROTECTION
3V	0.001V	±(2% +1 dgts)	600V

Capacitance

RANGE	RESOLUTION	ACCURACY	OVERLOAD PROTECTION
10.00nF	0.01nF	±(2.5% +5 dgts)	600V
100.0nF	0.1nF		
1.000µF	0.001µF		
10.00µF	0.01µF		
100.0µF	0.1µF		
1000µF	1µF	±(3% +5 dgts)	
10000µF	1µF		

AC and DC Current

AC and DC CURRENT	RANGE RESOLUTION	RESOLUTION	ACCURACY
AC (45Hz to 1000Hz)	40mA	0.01mA	±(1.5% +5 dgts)[1]
	400mA	0.1mA	
DC	40mA	0.01mA	±(0.5% +5 dgts)
	400mA	0.01mA	

1. 1kHz bandwidth
Overload 600mA for 2 mintutes Max.
Overload Protection 440mA, 1000V, FAST fuse

OHMS

RANGE	RESOLUTION	±(% of rdg +digits)
400Ω	0.1Ω	±(0.3% +5 dgts)
4kΩ	0.001kΩ	
40kΩ	0.01kΩ	
400kΩ	0.1kΩ	±(0.7% +5 dgts)
4MΩ	0.001MΩ	
40MΩ	0.01MΩ	±(1.2% +10 dgts)

1. Accuracies apply from 0 to 100% of range
Overload protection 600V rms or DC
Short cicuit current <1.0mA

DC Millivolts

RANGE	RESOLUTION	±(% of rdg +digits)
400mV DC	0.1mV	±(0.2% +3 dgts)

Frequency

RANGE	RESOLUTION	ACCURACY
99.99Hz	0.01Hz	±(0.1% +3 dgts)
999.9Hz	0.1Hz	
9.999kHz	0.001kHz	
99.99kHz	0.01kHz	

Temperature

RANGE	RESOLUTION	ACCURACY[1]
-328˚ to 999˚F (-200˚ to 999˚C)	0.1˚F (0.1˚C)	±(1.5% +3.6˚F (1.5% +2˚C))
1000˚ to 2642˚F (1000˚ to 1350˚C)	1˚F (1˚C)	±(1.5% +3˚F (1.5% +2˚C))

1. Accuracies apply following 90 minutes setting time after a change in the ambient temperature of the instrument

Earth-Bond Resistance Measurement

RANGE	RESOLUTION	ACCURACY
20.00Ω	0.01Ω	±(1.5% +3 dgts)
200.0Ω	0.1Ω	
2000Ω	1Ω	
20.00kΩ	0.01kΩ	

1. Accuracies apply from 0 to 100% of range
2. Overload Protection: AC 2V rms or DC
3. Open Circuit Test Voltage: > 4.0V, < 8V
4. Short Circuit Current: > 200.0 mA

Insulation Resistance

Output Votage	Display Range	Resolution	Accuracy
50V (0 to 20%)	0.01 to 6MΩ	0.01MΩ	±(3% +5dgts)
	6 to 50MΩ	0.1MΩ	
100V (0 to 20%)	0.01 to 6MΩ	0.01MΩ	±(3% +5dgts)
	6 to 60MΩ	0.1MΩ	
	60 to 100MΩ	1MΩ	
250V (0 to 20%)	0.1 to 60MΩ	0.1MΩ	±(1.5% +5dgts)
	60 to 250MΩ	1MΩ	
500V (0 to 20%)	0.1 to 60MΩ	0.1MΩ	±(1.5% +5dgts)
	60 to 500MΩ	1MΩ	
1000V (0 to 20%)	0.1 to 60MΩ	0.1MΩ	±(1.5% +5dgts)
	60 to 600MΩ	1MΩ	
	0.6 to 2.0GΩ	0.1GΩ	±(10% + 3dgts)

1. Measurement Range: 0.01MΩ to 2GΩ
2. Test Voltages: 50, 100, 250, 500, 1000V
3. Test Voltage Accuracy: 0 to +20%
4. Short-Circuit Test Current: 1mA nominal
5. Auto Discharge: Discharge time <0.5 sec. for C = 1µF or less
6. Live Curcuit Detection: Inhibit test terminal voltage >30V prior to intiaization of test
7. Maximum Capacitive Load: Operable with up to 1µF load

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