

5,000 V Insulation Tester Delta- 05K



High Performance Specification

The Delta05K, 5000V insulation resistance tester offers digital insulation testing up to 5 kV with Resistance measurement: 10 T Ω , making it ideal for testing high voltage equipment including switchgear, motors, generators and cables.

Data collection is easy using the Software. Real-time trending shows a live graph on your phone, rather than a hard-to-read set of changing values. And you can create reports quickly, using pre-designed templates that you can customize with company logos. The Delta05K insulation tester can conduct the entire range of test voltages with best accuracy and CAT IV 600 V safety rating.

High performance features include bargraph, built-in memory, leak current and voltage testing, and DAR and PI calculation capabilities to help shorten work time associated with field insulation testing.



- Large Liquid Crystal Display with backlight
- IR, timed IR, DAR, PI, DD, SV and ramp diagnostic test
- Resistance measurement: 10 T Ω - 5 kV
- High current - 3 mA short circuit current
- High noise immunity - 3 mA of noise rejection
- Rechargeable NIMH battery + AC Adaptor
- CAT IV 600 V safety rating up to 3000 m
- Dedicated voltmeter function (50 V to 650 V) AC or DC
- Both Analog & Digital Display

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Function	Range / Values
Test modes	IR, IR(t), DAR, PI, SV, DD, ramp test
Test Voltage Range	250 V, 500 V, 1000 V, 2500 V, 5000 V,
Test Voltage Step	100 V to 1 kV in 10 V steps 1 kV to 5 kV in 25 V steps
Accuracy	±5% to 1 TΩ, ±20% to 10 TΩ
Resistance range	Up To 10 TΩ at Full Test Voltage
Capacitance range	10 nF to 25 μF
Current range	0.01 nA to 6 mA
Current accuracy	±2% ±0.5 nA at all voltages
High Short Circuit/ Capacitor Charge Current	3 milliAmp
Interference	Maximum 3 mA
Capacitor charge Time	< 3 s/μF to 5 kV
Capacitor discharge time	5 kV to 50 V : < 250 ms/μF
Voltmeter range	50 V to 650 V ac or dc
Voltmeter accuracy	±3%, ±3V
Interface	USB
Data Logging/Memory	Yes
Breakdown	Automatically stop the test when a fault causes the applied voltage to drop rapidly
Burn Mode	IR tests ignore breakdown and continue to test the Insulation and are therefore destructive tests. Burn mode only operates at test voltages of 500 V and above.
Operating temperature	- 10 °C to 50 °C
Storage temperature	-20 °C to 60 °C
Humidity	90% RH
IP rating	IP65 (closed case), IP40 (open case)
Safety	Meets the requirements of IEC 61010-1, CATIV 600 V
Guard terminal performance	Guards out parallel leakage resistance down to 250 kΩ with a maximum additional resistance error of 1% with a 100 MΩ
EMC	As per IEC61326-1
Weight	5 kg
Dimensions	320 mm x 200 mm x 380 mm
Battery	Rechargeable NIHM battery
Power	90 - 264 V rms AC Voltage

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Ordering Information

Code	Description
DELTA05K	5,000 V Insulation tester Included accessories Test Cables with Alligator Clips, Quick Reference Card USB-IR Cable Installation Guide IP67 Hard Case , Certificate of Calibration, Heavy Duty Alligator Clip Leads

Ordering Information - Optional Accessories

Code	Description
TL270HC3	3 mtrs. Test Lead Set with Insulated Alligator clip
TL270HC10	10 mtrs. Test Lead Set with Insulated Alligator clip
TL270HC15	15 mtrs. Test Lead Set with Insulated Alligator clip
AL270HC	Alligator Clip High Current
ATA75	Alligator To Alligator Test Lead Set
BTA75	Banana To Alligator Test Lead Set
ATS75	Alligator Clip to Spade Lug
TL1550EXT	25 foot extended test lead set
CB05K	Calibration Box for Insulation Tester
*Note	Other Accessories on Request