

## 5KV & 6KV Digital Surge Tester

Model: D-5K, D-6K

The Digital Surge Tester is designed specifically to test the coils and windings of Low range AC Rotating machines ranging up to 660 V. The Surge Tester has an Embedded Industrial PC with 8 inch Touch screen Display and software to Store, Recall and Print the Test Reports.



### Features

- LABVIEW based software application
- Job work Management to store Models
- Infinite Model Storage capability
- Colour Coded Surge Test waveforms
- Store/Print/Recall Waveforms & Reports
- Peak & Target Surge Voltage Indication
- Software Reports in MS Word
- Graphical & Numerical %Error display

### Specifications of PC

- 8 Inch Touch Screen Display
- Industrial Grade CPU (Intel Dual Core)
- Windows 10 / MS Office / Anti Virus
- Dust Proof / Water Resistant / 0-60 C
- 2 USB Ports, VGA Port
- Wireless Keyboard & Mouse

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### Software Indicator & Controls

- Volts/Div -- Time Base -- Peak Voltage
- Impulse Rise Time - Pass/Fail Indicator
- Graphical & Numerical %Error Display
- Save, Recall & Print Reports

Surge Test Voltage to be applied =  $\sqrt{2} \times (2 \times E + 1000)$   
where E is the operating voltage of the rotating machine

### Benefits

- Footswitch For Hands Free Operation
- Highly Sensitive Fault Detection Capability
- Test Leads Insulated To 45KV Rating
- 8 Inch Touch Screen Colour Display
- Leads Energized Warning Indicator
- 1φ & 3φ Test Select Switch
- Printer Can Be Connected To Tester Via USB

### Applications

This tester is widely used for testing Newly and Rewound motors. It helps in finding and predicting the faults in Motors before it actually happens. This tester is extremely portable that can be easily used in the Motor shop and in-field to test the following:

- 1φ & 3φ Windings
- Coils & Stators
- AC, BLDC Stators
- Transformer Coils
- Solenoids & Chokes

Model	D-5K	D-6K
Test Voltage	0 - 5,000 Volts (Adjustable)	0 - 6,000 Volts (Adjustable)
Pulse Current	330 Amps (Max)	400 Amps (Max)
Pulse Energy	1.0J	1.44J
Capacitance	0.05 μF/channel	
Impulse Rise Time	0.1-0.2 μS (In accordance with IEEE 522 standard)	
Impulse Repetition Rate	50 Hz (50 Pulses per second)	
Min. Test Object Inductance	24 μH	
Display	8 inch Touch screen colour Display	
Vertical Sensitivity	500V, 1000V, 2000V, 5000V	
Sweep/Time Base	4 μS - 10 mS	
Operating Voltage & Frequency	230 V (50/60 Hz) or 110 V (60 Hz)	
Power consumption	160 Watts (Max)	
Dimensions	350 (w) x 250 (H) x 450 (L) mm Approx	
Gross Weight	30 Kgs Approx	
Net Weight	20 kgs Approx	

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The latest surge tester is in accordance with IEEE Standards and CE Compliant.