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Test & Measurement

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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the “Click-to-Call” logo below, you can call us for FREE!

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UDEY

INSULATING OIL TESTER : OTS-E series [SEMI-AUTOMATIC]



Introduction:

UDEY insulating oil testers are market standards since 1960 and several thousand of units are in use around the world. Series 'OTS-E' are semi automatic compact and portable testers giving smooth variable outputs of 60, 80 and 100kV for testing dielectric of insulating oils used in electrical equipments. Stirrer is provided to stir oil for 60 seconds. Timer of 60 seconds is provided for conducting withstand tests.

Features:

- Digital display of kV
- Motorized rise of test voltage: 2kV per second as recommended by IS:6792/IEC 156
- Set voltage facility
- Automatic start-stop of stirring of oil for 60 seconds.
- Automatic start-stop and hold for withstand test for 60 seconds
- Audio + Visual alarms at breakdown
- Indicators for test status
- Light weight: 30 kg 60kV set

Safety features:

- Zero start high voltage output
- HV area interlocked
- Protection: a) Does not start if 'Live, Neutral' connected reversely.
b) Does not start if 'GROUND' is open.
- Audio visual alarms at breakdown

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System description:

The system is semi-automatic. Test voltage is set on the digital display and test is started. The test voltage ramps to the set voltage level at 2kV per second [IS:6792/IEC 156/ etc]. In case insulation fails, the output test voltage is tripped and comes to zero. The stirrer starts to stir the oil for 60 seconds and stops automatically after 60 seconds. In case the insulation stands the set value, the test voltage remains for 60 seconds and automatically returns to zero. If during this period the insulation fails, the test voltage is tripped and output test voltage comes to zero.

Modes of tests:

- Breakdown tests [BDV test]
- Withstand test for 60 seconds

SPECIFICATIONS:

Model	: OTS-E 6: 60kV	OTS-E 8: 80kV;	OTS-E 10: 100kV
Standard	: Meets requirements of I.S. 6792 (Latest amendment).		
Input Voltage	: 240 Volts, 50 Hz, single phase AC supply.		
Output Voltage	: Continuously variable voltage.		
H.T. Source	: Heavy duty epoxy resin cast, dry, maintenance free transformer with mid point ground.		
Voltage rise	: a) Motorized at 2 kV per second ($\pm 20\%$).		
kV Meter	: Digital kV meter. Accuracy: $\pm 4\%$ as per IS 6792.		
Trip	: Automatic cut-off in the event of oil breakdown.		
Controls	: a) Mains ON / OFF. b) Input fuse. c) H.T. ON & OFF push button switch. d) Set voltage control knob and digital display. e) Digital kV Meter continues to indicate after breakdown.		
Indicator Lamps	Mains 'ON'	'L,N,G' okay	BDV/SET kV TEST kV HT ON HT OFF BDV TRIP STIRRER ON TIMER ON
Safety & interlocks	: a) Does not start if 'Live, Neutral' connected reversely. b) Does not start if proper 'GROUND' is open. c) The transparent hood to H.T. Chamber has a interlock such that opening of hood shuts high voltage OFF . Also when this hood is open , H.T. cannot be switched ON. d) Zero interlock. Continuously variable auto-transformer is interlocked at its minimum & maximum position so that H.T. can be switched 'ON' only when it is in its minimum position. Interlock at maximum position switches off 'HT'.		
Oil Test Cup	: Oil test cup with adjustable 36 mm mushroom electrodes, to I.S. 6792 figure 2.		
Stirrer	: Automatic [60 seconds].		
Timer	: Automatic [60 seconds].		
Enclosure	: Aluminum metal cabinet with cover and lifting handles.		
Accessories supplied	: a) 3 core mains cord cable, 2 meter long 1No. b) Oil test cup with adjustable electrodes 1No. c) 'GO' gauge for '2.5' mm gap 1No. d) 'NO GO' gauge 1No.		

Catalog # OTS-E-2009 Specs subject to change due to constant up gradation