



In all Power and Distribution Transformers, Switchgears and Circuit Breakers etc., transformer Oil or other insulant is a very important ingredient. Used liquid insulant should have a very high dielectric strength. To test the dielectric strength of the insulant, a very high voltage is passed through it. The failure of the dielectric strength of insulant is shown by a spark across two electrodes.

Transformer and Switchgears used with Insulating Oil as a coolant. Insulating Oil cause to remain winding temperature down from its ambient temperature. Circulative insulating Oil within the winding is having a low dielectric strength cause's raise of short circuit current as well as winding temperature during process of heat transfer, which leads the winding up to damage.

Humidity, moisture and carbon gains impurity level in insulating Oil due to senescence, which effectively reduce the dielectric strength of Oil.

To remove moisture and carbon particles - to meliorate the dielectric strength - Oil is being processed through filtration till Oil engaged it's IS standard dielectric strength. By using Oil BDV test set, Oil's dielectric strength can measured periodically during filtration process.

In Oil BDV Test Set high volt is applying to Oil. High voltage Electrode reflects spark towards when Oil arrives its dielectric strength. Expecting IS specification, high voltage - at the mean time of spark will being sense by highly precise sensing circuit and at the same instant it stops the high voltage supply. The apparatus of carry out this test is manufactured by us in various voltage ranges and models, as per IS: 6792/1972 and IEC-156, known as Testing Instruments made OIL BDV TEST SET.

We are dealing with all models in every range: 0-60 KV, 0-80 KV, 0-100 KV, Motorized and Manual.

## MODEL

## SIZE IN MM

## APPROX. WEIGHT

- M60BDV
- M80BDV
- M100BDV

## ACCESSORIES

- » Oil cup contains ASTM D1816 mushroom type brass made high voltage Electrodes.
- » GO NOGO Gauge scale to set high volt Electrode gauge.
- » Mains Power Cable.
- » User Manual.

## FEATURES

- » Resin encapsulated low losses high volt transformers.
- » Variac zero interlock to operate Test Set.
- » HT chamber interlock for output ON.
- » Highly precise Leakage current sensing circuit.
- » Easy to read out metering forKV.
- » Easy operated switches and indications for HV O/P ON and OFF.
- » During test view of oil cup, transparent sheet is engaged.
- » Motorized kit gives smooth increase in output voltage.
- » As per demand confirming specifications British BS-5874, European IEC-156, American ASTM D 877/ASTM D-1816, German VDE-0370 and French NFC-27 could also supplied.

## STANDARD TECHNICAL SPECIFICATIONS

- » Input Supply: 230 V  $\pm$  10 %, AC, 50 Hz, 1 Phase (Ground must).
- » Metering: Analog / Digital KV Meter.
- » Indication: HV ON, HV OFF, Mains ON, Oil Level in Oil Cell.
- » Enclosure: Powder coated M.S. made rock body superior design cabinet with Two Lifting Handles and base wheels for easy handling.

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## OTHER PRODUCTS

Testing Instruments supports manufacturers, repairers, agency owners and contractor in each Power Sector related industry with a breadth of critical services.

- » Primary Injection Test Set
- » Secondary Injection Test Set / Relay Test Set.
- » HV Test Set (AC/DC).
- » Transformer Turns Ratio Test Set.
- » Transformer Voltage Ratio Test Set.
- » Load Bank.
- » Transformer Routine Test Set.
- » 3 Pole Breaker Timer.
- » Winding Resistance Test Set.
- » Contact Resistance Test Set.
- » 1phase / 3phase Transformer / Motor testing panel. (Custom built).
- » All Kind of Transformers, Variacs (Auto Transformers) and Inductors.
- » Epoxy Resin cast high volt transformer. (1KV TO 100KV).
- » DC Power Supply.

Our expert Engineering team can effort your any kind of Queries.



Formally Known as

**KAY PEE INSTRUMENTS**

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