



**PRAM**  
ELECTECH

## Final Destination For Testing & Measuring Instruments



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### 3-PHASE POWER ANALYZER PA-1LCD



#### FEATURES

- ▶ TRMS Voltage 150V/600V/1200V/1400V (Phase Voltage) & 250/1050/2100/2400V (Line Voltage).
- ▶ TRMS Current 8A/40A/80A/160A/250A.
- ▶ Test Mode: 1-Phase, Phase-Neutral, Phase-Phase, 2-Wattmeter Method Selectable..
- ▶ CT & PT Ratio Setting & Power Scaling Facility.
- ▶ Motor & Pump Parameters Measurement (Torque, RPM, CRPM, %Slip, Efficiency, Flow, Head Etc).
- ▶ Accurate Measurement at Low PF.

#### FEATURES

- ▶ Turns Ratio Range 1 : 500 Ratio (5 Digit Resolution).
- ▶ Measured Parameters: Turn Ratio, Excitation Current, %Deviation, HV & LV Voltage.
- ▶ Test On, Polarity Reverse, Hold LED Indications.
- ▶ Inbuilt Over Current Protection for Shorten Winding.
- ▶ 16 X 2 Jumbo LCD for Viewing Parameters Easily.
- ▶ 0.2% Accurate Measurement.

### TRANSFORMER TURNS RATIO METER TTRM-500



#### FEATURES

- ▶ Turns Ratio Range 1 : 500 Ratio (5 Digit Resolution).
- ▶ Measured Parameters: Turn Ratio, Excitation Current, %Deviation, HV & LV Voltage.
- ▶ Test On, Polarity Reverse, Hold Indications along with R,Y,B Phase Selection Switch.
- ▶ Inbuilt Over Current Protection for Shorten Winding.
- ▶ 16 X 2 Jumbo LCD for Viewing Parameters Easily..
- ▶ 0.2% Accurate Measurement.

### TRANSFORMER TURNS RATIO METER TTRM3-500



### OIL INSULATION TESTER (OIL BDV Tester) OIT-100D

#### FEATURES

- ▶ Voltage Range: 60KV / 80KV / 100KV.
- ▶ Easy adjust - locking of Electrode Gap (2.5mm Go - No Go Gauge).
- ▶ Smooth Operation from zero potential to FSV with Motorized cum Manually Operation.
- ▶ 2KV / Sec rise rate with HV Chamber Interlock, zero start interlock & overload trip protection.
- ▶ Audio as well as visual indications for Test ON & variac Zero indication.
- ▶ 7 Segment LED Display with fast precision breakdown detection.



### OIL INSULATION TESTER (OIL BDV Tester) OIT-100F



#### FEATURES

- ▶ Voltage Range: 60KV / 80KV / 100KV.
- ▶ Easy adjust - locking of Electrode Gap (2.5mm Go - No Go Gauge).
- ▶ Smooth Operation from zero potential to FSV with Motorized cum Manually Operation.
- ▶ 2KV / Sec rise rate with HV Chamber Interlock, zero start interlock & overload trip protection.
- ▶ Audio as well as visual indications for Test ON & variac Zero indication.
- ▶ 7 Segment LED Display with fast precision breakdown detection.



## FEATURES

- ▶ Voltage & Current Range: 3KV to 200KV - 30mA to 2A (Depends on requirements).
- ▶ Digital KV & mA meter for read out High Voltage and Leakage Current.
- ▶ Dual Tripping Facility-Digital Tripping Continues Settable | Analog Tripping-25%, 50%,75%, 100%.
- ▶ HT ON Buzzer as audio indication as well as visual indication of High Voltage is Present.
- ▶ Zero Start Interlock facility to provide operator's safety.
- ▶ Input Supply 230V  $\pm$  10% @ 50Hz for 1-Phase & 415V  $\pm$  10% @ 50Hz for 2-Phase & 3-Phase.

## FEATURES

- ▶ It can measure Turns, Winding Polarity of High / Low Voltage coil of Transformer .
- ▶ Turn Count Range : 50 to 12000 Turns, 4 digit resolution .
- ▶ Test On, Polarity Reverse, Hold LED Indications.
- ▶ Inbuilt Over Current Protection for Shorten Winding.
- ▶ Max. Size of Coil up to 200mm / 400mm Height .
- ▶ Parameter to be Measured : Turns (Measured Turns), mA (Excitation Current) .

## TRANSFORMER COIL TURN TESTER CTT-12000



## CURRENT INJECTION KIT

## CIT



## FEATURES

- ▶ Current Range: 60A | 100A | 200A | 400A | 600A | 1000A | 2000A (As per Requirement).
- ▶ Measured Parameters: Ampere.
- ▶ Dual Meter & Output Facility as per customize requirement
- ▶ Variable Output Current.
- ▶ Audio as well as Visual Indication while Test ON.
- ▶ Smooth & Easy for Operation.

## MOTOR &amp; PUMP TEST PANEL

## MTP

## FEATURES

- ▶ Voltage Rating:- 150V / 600V / 1200V (Phase – Neutral).
- ▶ Current Rating:- 20A / 40A / 80A / 160A / 250A / 300A.
- ▶  $\pm$  0.2% Accurate Measurement as per IS 12615 for Motor Test.
- ▶ Water Cooled Eddy Current Dynamometer along with Torque Controller & Test Bed for the Load of Motor.
- ▶ Test to be Conduct:- No – Load Test, Reduce Voltage Test, Locked Rotor Test, Pull up Torque Test, Full Load (Part Load Test), Momentary Over Load Test, Temperature Rise Test, Friction & Windage Loss Test, Etc...
- ▶ Test to be Conduct:- No – Load Test, Reduce Voltage Test, Locked Rotor Test, Pump Performance Test for Submersible Pump, Monoblock Pump & Centrifugal Pump Etc...
- ▶ Measurement- Output Power, RPM, CRPM, %Slip, Direct Efficiency, Torque of Motor.
- ▶ Measurement- RPM, CRPM, %Slip, Flow in LPM / LPS, Head in MWC, Suction in MWC Etc...
- ▶ Electromagnetic Flow Meter along with Pressure Transducer, Suction Transducer & RPM Sensor (Slip Coil) for the Performance Test of Pump.
- ▶ 3-Phase Power Analyzer with Torque Correction as per IS 12615 for Motor Test.
- ▶ Reverse / Forward (Phase Change Over) Switch Provision for 3-Phase Motor & Pump.
- ▶ Push Buttons for Motor & Pump Start / Stop, Variac Increase / Decrease & Emergency Stop.
- ▶ Indication Lamps Mains R, Y, B, Test ON, Variac Zero & Emergency ON.
- ▶ It Covers Selection Switch for 1-Phase / DOL / Star – Delta Output (As per Requirement).
- ▶ Selection Switch for Start & Run Capacitor (As per Requirement) for Pump Test.
- ▶ Motor Direct Efficiency by Direct Method & PLL (Additional Summation Method) as per IS 12615, IS 15999.
- ▶ Serial Interface along with Software for Motor & Pump Test.



RPM Sensor



Pressure Transducer



Electromagnetic Flow Meter



Eddy Current Dynamometer (Water Cooled)





**Transformer Testing Panel**  
OC/SC Test, HV Test, DVDF Test



**Dimmer (Variac)**



**HV Transformer**



**DVDF MG Set**

### FEATURES

- Useful for No Load Loss Test (Open Circuit Test), Load Loss Test (Short Circuit Test), Double Voltage Double Frequency Test (Induced Over Voltage Test), High Voltage Test (High Voltage With Stand Test) - Other Test on request for Distribution as well as Power Transformers..
- 10A to 1200A Common Motorized Air Cooled / Oil Cooled Variac for All Test (Depends on Requirements).
- Capable to Test up to 5KVA to 20MVA Transformers (Depends on Model - As per Requirements).
- 3KVA to 200KVA DVDF Motor - Generator Set (Depends on Requirements).
- 30KV to 100KV - 100mA to 1A Oil Cooled High Voltage Transformer (Depends on Requirements).
- A Single Measurement and control center.
- Inbuilt / External Capacitor Bank (Depends on Requirements).
- Electrically interlocked and safe operation (Over Current Protection Relay for HV & DVDF Test).
- Motorized control of output power for easy operation.
- Rotary selector switch to select test for easy operation.
- Indication Lamps for R, Y, B, Test On, Emergency, Dimmer Zero & Tower Light with Siren.
- Push buttons of Test ON / OFF and Motorized Variac for easy operation.
- Emergency Stop Switch with indication to avoid serious accident.
- Zero Start Interlock facility to provide operator's safety.
- Under / Over Voltage Protection Relay for Meters (for Mains Input).
- Magnetic Balance & Vector Group Test Provision (Depends on Requirements).
- Compliance to relevant IS & Other Standards.
- All Electrical Solutions under one roof.

### AUTOMATIC TRANSFORMER TURNS RATIO METER

**TTRM-TFT**

### FEATURES

- Fully Automatic Measurement of Distribution as well as Power Transformer Turns Ratio.
- Turns Ratio Range: 1 to 4000 | 10000 Ratio, 5 Digit Resolution.
- Excitation Current 500mA (Resolution 0.1mA) (Other range available on request).
- Accurate Measurement of 1-Phase | 3-Phase Transformers & CT | PT Turns Ratio.
- For Y-y, D-y, Y-d, D-d Connections with Vector Group Selection Facility.
- Standard Ratio Editing Facility for Automatic %Deviation shows.
- Excitation Voltage: Dual Test Voltage 6V & 60V, 500mA @ 50Hz (230V AC Input @ 50Hz).
- 7" Color TFT Display with Touch Pad for Viewing Parameters Easily.
- Test ON Visual Indications along with Pushbutton.
- Parameters to be Measure: Tr (Turns Ratio), mA (Excitation Current), %Deviation.
- Error Shows for the Wrong Connections (HV & LV Connection Interchange).
- Inbuilt Over Current Protection for the Shorten Winding.
- Auto as well as Manual Mode for the Testing.
- Serial Interface for Communication along with Software.
- Inbuilt Thermal Printer to printout the results on site.
- Compliance to ANSI/IEEE C57.12.90 | IEC 600076.1 (2000) | Other Standards.
- ± 0.1% Accurate Measurement.



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