

## RELAY TEST SET



**neon** Relay testing Kit in one unit, is suitable to test different types of Relays like over current, over voltage, under voltage, earth fault etc.

### TECHNICAL FEATURES :

Input : 230volts +/- 10%, single phase, 50Hz, AC  
Output(s) : (a) The unit have separate output for voltage and current & can be operated at a time independently.

#### GENERAL ARRANGEMENT :

The Test Kit will be in one unit. Meters, Terminals, Indicators, Regulator knob, Timer Display etc. will be fitted on the horizontal panel of the cabinet which can be approached by opening the top hinged lid. An input chord of 2 meters length with 3pin plug will be provided. Loading transformer, Measuring CT & protection circuit will also be housed within the same unit.

#### CURRENT CIRCUIT

Current Range	Open Circuit Voltage
I 0-1A	140V
II 0-5A	70V
III 0-10A	34V
IV 0-25A	17V
V 0-50A	8V
VI 0-100A	4V
VII 0-200A	2V

#### Duty : Intermittent

Current Range	Time
i) 1-25A	continuous
ii) 50A	continuous
iii) 100A	10 mins.
iv) 200A	10 mins.

#### VOLTAGE CIRCUIT

a) Variable Autotransformer : For smooth variation of voltage output from 0 to 250 volts AC at 2 Amps.  
Metering : Digital type Voltmeter, 96 x 48 mm  
Range : 0 to 300V AC.  
Accuracy : 1%

#### b) Voltage Output

- i) Continuously variable 0 to 250 volts AC at 2 A. AC
- ii) Fixed voltages : 230 /110v at 2 Amps AC

#### c) DC Voltage Output

- i) 0-270V DC / 2 A DC is available with kit.

#### TIMER CIRCUIT :

- Auto Range : 0.001 to 9999 secs.
- Display : Seven segment LED, 4 digits.
- Terminals to relay contacts.
- Auto Reset (Programmable)
- Potential free start timer for opening or closing of auxiliary contact of the contactor.

#### OPTIONAL :

- \* Higher rating relay test set are also available on request.
- \* Connecting cables supplied on request at extra cost.

## OIL TESTING KIT

#### SCOPE

**neon** Oil Test set is ideal for speedy and accurate testing of di-electric strength of transformer and circuit breaker oil under test room condition in accordance with IS: 6792-1972 for oil testing.

#### RATING

Input : 230 volts, Single ph, 50Hz, AC  
Output : Continuously variable from 0 to 50 Kv 'or' 0 to 60 Kv, 'or' 0 to 100 Kv, '

**CAPACITY** : 1000 VA (1KVA)

**DUTY** : The Oil Test set will be designed for "INTERMITTENT" RATING

#### NATURE OF COOLING

The transformer will be epoxy resin cast type air-cooled type.

#### GENERAL ARRANGEMENT

The set will be comprising of the H. T. transformer, control circuitry & Test cell with electrode & guage and will be supplied in portable air-cooled sheet metal casing with powder coating of control cubical & H.T. transformer

#### CONTROL

- One continuously variable Auto-Transformer for smooth variation of output voltage
- Beside the ON/OFF switch, fast acting Automatic tripping mechanism for protection of H.T. Transformer against over loading on flash over.
- One zero start interlocking device.
- Three pilot lamps to indicate mains 'ON', H.T. 'ON' & H.T. 'OFF'.
- One input supply cable with 3-pin plug.
- One memory effect voltmeter to show the breakdown voltage even after the high voltage circuit is tripped off.

**MODE OF OPERATION** : Sets are available either in manual or in motor operated mode. Beside motorized auto-transformer regulator for motorized set, motor operated Auto-transformer, can be operated in manual through switch.

**H. T. TRANSFORMER** : High Voltage Transformer ratio is 230V / 50Kv or 60Kv or 100Kv or 120Kv with centre tap HV winding earthed

**TEST VESSEL** : The test vessel (Oil Cell) fitted with two brass spheres of diameter between 12.7 to 13mm, placed at a distance of 4mm or 2.5mm on sides of test vessel made from non-absorbent insulating material.

**COVER** : Sets will be provided with transperant high impact acrylic sheet cover for covering the H.T. side with suitable interlocking device.

