



Introduction: UDEY 'HT-uP series' of AC High Voltage testers are suitable for Power frequency applied voltage test on transformers, motors, insulators, cables etc. for which the test parameters are within the technical scope of output of the tester. The set is capable of giving continuously variable High Voltage from 0-100 kV.

Features:

- Micro-processor controlled functions**
- Panel mounted controls and indicators with easy to read legend**
- Man-machine conversation and key board operation function**
- Auto-Manual regulating function**
- Auto timing 'Withstand test'**

Safety features:

- Zero start interlock (HV is switched on only when regulator is at its minimum position.
- External interlock
- Audio + Visual alarms
- Over current, voltage cut-off

Description:

Output voltage variation: By means of remote controlled motor driven arrangement as well as manual operation.

Rate of rise of the output voltage: Can be set any value 500V/S to 2500V/S by micro controller based circuit along with LCD display indication.

Trip: Over current.

Protection: Over Voltage Indication & Interlock protection provided.

Construction: Two parts: Control & Measurement Unit. AC HV Transformer Unit.

All the above units will be provided with wheels for easy movement.

CONTROL & MEASUREMENT UNIT

Power Mains: ON /OFF operation is done by means of switch and lamp indicator .

Isolation Transformer: for control operation, auxiliary supply to meters & power supply for electronic circuit.

Key lock switch: Mushroom type key lock switch.

'HT' ON-OFF: Press switches with lamp indication.

Earth interlock: Provided. HT circuit cannot be energized without proper earth connection.

Zero start interlocking: Is provided to ensure that the HV circuit cannot be energized unless the regulator is initially kept or brought back to zero position.

Increase/Decrease: Circuit to control motor operated Voltage Regulator. When high voltage circuit is switched ON the regulator will rotate to increase the output voltage when INCREASE/DECREASE switch is kept in 'INCREASE' position and INCREASE switch is pressed ON or decrease the output voltage when the 'INCREASE/ DECREASE' switch is kept in 'decrease' position.

SET/MEASURE: Option facilitates to set the maximum rise of High Voltage up to the set level beyond which the High voltage cannot be further raised.

TIMER: The required HV when raised can be kept for 1 minute. A 'TIMER'(adjustable) will be provided to measure the duration of applied HV. A Buzzer will indicate the end of power frequency test and the voltage regulator will gradually & automatically decrease to reduce the voltage level to zero.

Trip: Automatic tripping mechanism for protecting the HV transformer against over loading. High Voltage will be switched OFF.

Display: LCD digital display in kV, generally connected to the LT side and with resolution of 0.1, Accuracy: $\pm 3\% \pm 5$ digits. Digital display in mA of leakage current.

Protection: In case of over voltage a lamp & buzzer will indicate over voltage and the increase mode circuit will be automatically cut OFF.

Memory: A memory circuit to enable the display of the the breakdown voltage even after the high voltage circuit is tripped OFF.

HV TRANSFORMER UNIT

HV Transformer used in the test set will be oil cooled, indoor type and of suitable capacity. The HV winding of the High Voltage Transformer is of graded insulation; one end of the winding being connected to the earth potential through a CT operated milli-ammeter & tripping device, while the other end remains in floating condition as HT Terminal.

The transformer is designed to withstand frequent intermittent spark over or short circuit conditions under which such testing transformers are designed to operate.

MODEL	Power AC	OUTPUT		kV display	mA display	Trip
		kV	mA			
HT-uP-100-100	240V, 50 Hz	100	100	99.9 kV	99.9 mA	100 mA
HT-uP-100-200	415V, 50 Hz	100	200	99.9 kV	199.9 mA	200 mA
HIGHER kVA RATINGS AND VOLTAGE MADE AGAINST SPECIFIC REQUIREMENTS						

Specifications subject to change due to constant up gradation

Catalog # HT-uP-100