

## WARRANTY

Each "KUSAM-MECO" product is warranted to be free from defects in material and workmanship under normal use & service. The warranty period is One year (12 months) and begins from the date of despatch of goods. In case any defect occurs in functioning of the instrument, under proper use, within the warranty period, the same will be rectified by us free of charges, provided the to and fro freight charges are borne by you.

This warranty extends only to the original buyer or end-user customer of a "KUSAM-MECO" authorized dealer.

This warranty does not apply for damaged Ic's, burnt PCB's, fuses, disposable batteries, carrying case, test leads, or to any product which in "KUSAM-MECO's" opinion, has been misused, altered, neglected, contaminated or damaged by accident or abnormal conditions of operation or handling.

"KUSAM-MECO" authorized dealer shall extend this warranty on new and unused products to end-user customers only but have no authority to extend a greater or different warranty on behalf of "KUSAM-MECO".

"KUSAM-MECO's" warranty obligation is limited, at option, free of charge repair, or replacement of a defective product which is returned to a "KUSAM-MECO" authorized service center within the warranty period.

THIS WARRANTY IS BUYER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. "KUSAM-MECO" SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, INCLUDING LOSS OF DATA, ARISING FROM ANY CAUSE WHATSOEVER.

All transaction are subject to Mumbai Jurisdiction.

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# HIGH VOLTAGE PROBE

## PD-28



# INSTRUCTION MANUAL

### **SAFETY PRECAUTION**

Electricity can cause severe injuries with high voltages. Therefore it is very important to read the following info before using PD-28.

This instrument must only be used and operated by adompetent trained person and in strict accordance with the instructions. We will not accept liability for any damage or injury caused by misuse or non compliance with instructions and safety procedures.

1. Examine the probe to make sure it is clean and dry. If in doubt, wipe with a clean, dry, lint-free cloth.
2. Take a look at the situation of the floor. It must be dry, Clean and free of oil. Keep in your mind that never stand on a wet or damp floor.
3. Always connect the allgator clip of the high voltage probe meter to earth ground before taking any measurements.
4. Make sure the connecton between the probe and the test point is proper. Also make sure the tip is clear of wires, metal supports and other nearby conductive things.
5. Remain clear and avoid contact with any exposed metal and other conductive parts of the device being checked.
6. It is better to work with your colleague. Remember to be careful and hear from your colleague. If an accident occurs, you will be able to get help as soon as possible.
7. If possible, always turn the high voltage source off before connecting or disconnecting the probe.
8. Please wear high insulating gloves when you measure the voltage.

MUMBAI

## **TEST CERTIFICATE** **HIGH VOLTAGE PROBE**

This Test Certificate warranties that the product has been inspected and tested in accordance with the published specifications.

The instrument has been calibrated by using equipment which has already been calibrated to standards traceable to national standards.

MODEL NO. **PD-28** \_\_\_\_\_

SERIAL NO. \_\_\_\_\_

DATE: \_\_\_\_\_

**ISO 9001**  
**REGISTERED**



## RATED ENVIRONMENTAL CONDITIONS

- (1) Indoor use.
- (2) Installation Category III.
- (3) Pollution Degree 2.
- (4) Altitude up to 2000 Meter.
- (5) Relative Humidity 80% Max.

## OBSERVE THE INTERNATIONAL ELECTRICAL SYMBOLS LISTED BELOW



Meter is protected throughout by double insulation or reinforced insulation.



Warning! Risk of electric shock.



Caution! Refer to this manual before using the meter.

CAT IV- Is for measurements performed at the low-voltage installation.

CAT III - Is for measurements performed in the building Installation.

CAT II - Is for measurements performed on circuits directly connected to the low voltage installation.

## SPECIFICATIONS

1. Input Impedance : 1000 M ohm
2. Attenuation Ratio : 1000 : 1
3. Accuracy : DCV ( 0 ~ 20kV )  $\pm 1\%$   
DCV ( 20kV ~ 40kV )  $\pm 2\%$   
ACV ( 0 ~ 28kV ) Typically  $\pm 5\%$  at 60 Hz
4. Max. Working voltage : AC 28kV  
DC 40kV
5. Operating temperature : 0° C ~ 50° C
6. Storage temperature : -10° C ~ 60° C
7. Cable Length : 1 m
8. Note : PD-28 is designed to be used with DMM

## OPERATION

1. Connect the red test plug to the Volts ( V+ ; Hi ) terminal of your multimeter.
2. Connect the black test plug to the Com ( V- ; Lo ) terminal of your multimeter.
3. Select the desired voltmeter function and range, do not use autoranging.
4. Keep in your mind to turn the high voltage source off before making any connections.
5. Connect the black alligator clip ( the probe common lead ) to a good earth ground or reliable chassis ground. Make sure the connection is proper.

## **WARNING**

1. Do not attempt to take measurements from sources where the chassis or return lead is not grounded.
2. This ground connection is critical to the safe operation of the probe. Failure to make this connection when making high voltage measurements may result in personal injury or damage to the probe or voltmeter. This connection should always be made before the probe tip comes into contact with the high voltage and must not be removed until after the probe tip has been removed from the high voltage source.
3. Keep in your mind that do not connect the ground clip lead to the high voltage source or the probe tip to ground for any reason.
4. Make sure that no part of your body is in contact with the device under test before turning the high voltage source on.
5. Please keep in your mind that the voltage you measure is 1000 times greater than the voltmeter reading.
6. Remember to turn the high voltage source off after the test is done.
7. Disconnect the probe tip from the high voltage source before removing the ground clip lead.

## **CLEANING**

1. The exterior probe body and cables are the only parts to clean. Use a soft cotton cloth to clean it. Do not allow any portion of the probe to be submerged at any Time.
2. Keep in your mind to dry the probe thoroughly before doing any voltage measurement.
3. Do not use solvents and solvent fumes. Solvents and solvent fumes can cause deterioration of the probe body and cables.