MULTI-PURPOSE DIGITAL HIGH VOLTAGE PHASING METER

INSTRUCTION MANUAL

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1. INTRODUCTION

This Multi-purpose digital high voltage phasing meter is designed to measure both of AC high voltage and DC high voltage up to 36kV.

WARNING

This instrument must be connected with an approved hot stick. Failure to do so could lead to injury or death.

READ "SAFETY RULES" (NEXT PAGE) BEFORE USING THE INSTRUMENT.

2. SAFETY RULES

High voltage electrical circuits are dangerous and lethal through lack of caution or poor safety practice. The following rules should reduce the danger:

- Read the user manual carefully and completely before using the Multi-purpose digital high voltage phasing meter. Fully understand the instructions before using this product. Take all the necessary precautions. Do not exceed the limits of this Multi-purpose digital high voltage phasing meter.
- Always use fiber glass rods or authorized hot sticks for connection.
- A high voltage test is carried out with the Multi-purpose digital high voltage phasing meter attached to a hot stick.
- Do not touch any exposed wiring, connections, or other "live" parts of an electrical circuit.

This instrument must only be used by a competent, suitably trained person who understands this test procedure fully. Personnel working with high voltage Should be trained regularly.

3. FEATURES

- AC 36kV and DC 36kV measurement with direct reading.
- 4000-count LCD.
- Input impedance : 400 Mohm
- Auto-ranging :
  AC : 4.000kV / 36.00kV
  DC : 4.000kV / 36.00kV
- The Multi-purpose digital high voltage phasing meter must be connected with an approved hot stick.
- Check phases are "in-phase" or "out of phase".
- Polarity indication : Positive / Negative
- Backlight function.
- Auto power off.
- Power source : 1.5V(AA) alkaline battery × 2.
- Low battery indication(Multi-level).
- Protection class : IP66
- Safety standard : EN/IEC 61243-2

4. SPECIFICATIONS

AC Voltage :

Range	Resolution
4.000 kV	0.001 kV
36.00 kV	0.01 kV
Accuracy	
0 ~ 30 kV	±(4.0%rdg+0.1kV)
30 kV ~ 36 kV	±(5.0%rdg+0.5kV)

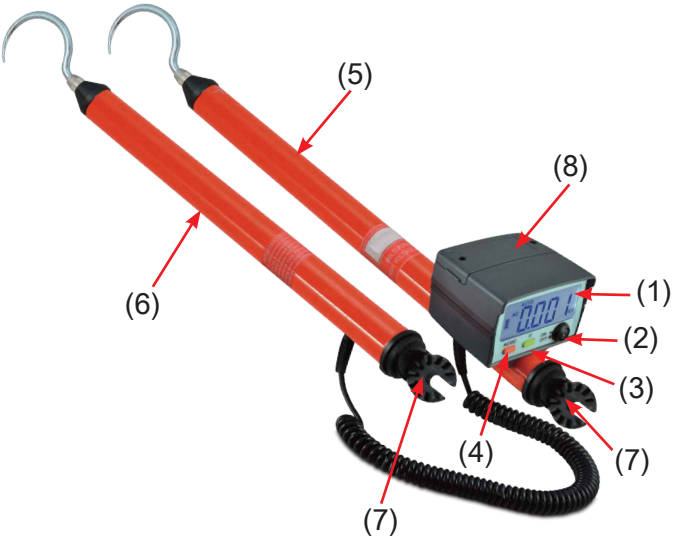
DC Voltage :

Range	Resolution
4.000 kV	0.001 kV
36.00 kV	0.01 kV
Accuracy	
0 ~ 20 kV	±(2.0%rdg+0.08 kV)
20 kV ~ 36 kV	±(3.0%rdg+0.1kV)

General :

Low battery indication	√ (Multi-level)
Operating temperature & humidity	0°C~40°C, 80% Max.
Storage temperature & humidity	-10°C~50°C, 80% Max.
Dimensions	Master stick : 490(L) × 101(W) × 118(D)mm Slave stick : 490(L) × 35(W) × 35(D)mm
Weight (battery included)	Approx. 1.35kg
Power source	1.5V (AA) Alkaline battery × 2
Accessories	Instruction manual "Y" contact electrode × 2 Test hook(contact electrode)× 2 Insulated rod × 2 Alkaline batteries Carry case Piercing tip × 2(Optional)

5. INSTRUMENT LAYOUT



(1) LCD
(2) ON/OFF Button
(3) ☼ Backlight Button
(4) AC/DC Button
(5) Master Stick
(6) Slave Stick
(7) Adapter End
(8) Battery Cover

(1) LCD

4000-count LCD with low battery indication(Multi-level).

(2) ON/OFF Button

This is the ON/OFF button. Press the ON/OFF button to turn on the instrument, the green LED on the ON/OFF button will glow. Press the ON/OFF button again to turn off the instrument.

(3) ☼ Backlight Button

Press the ☼ button to enable the backlight function. Pressing the ☼ button again can disable this function.

(4) AC/DC Button

Press the AC/DC button to select AC voltage measurement mode or DC voltage measurement mode.

(5) Master Stick

(6) Slave Stick

(7) Adapter End

The adapter ends have to be connected to the approved hot sticks for high voltage measurement.

(8) Battery Cover

Battery cover for 1.5V(AA) alkaline batteries.

6. MEASUREMENT

Before proceeding with measurement , read the safety rules.

(1) Connect approved hot sticks to the Multi-purpose digital high voltage phasing meter.

(2) AC Voltage measurement

Turn on the Multi-purpose digital high voltage phasing meter. Connect the test hooks to the high voltage circuit or high voltage device for measuring and get the reading on the LCD directly.

(3) DC Voltage measurement

Turn on the Multi-purpose digital high voltage phasing meter. Select the DC voltage function. Connect the test hooks to the high voltage circuit or high voltage device for measuring and get the reading on the LCD directly.

7. ACCESSORIES

Test hook
(contact electrode)

"Y" contact electrode

Piercing tip
(Optional)

• Carry case

8. MAINTENANCE

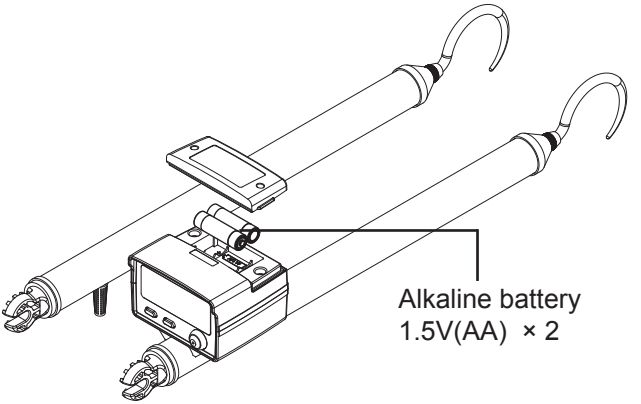
Battery replacement :

When low battery warning symbol " Lobt "appears, change new batteries as follows :

(1) Disconnect the test hooks from the Multi-purpose digital high voltage phasing meter and turn off the power.

(2) Unscrew the battery cover and replace with new alkaline batteries(1.5V AA alkaline battery × 2).

(3) Re-install the battery cover.



Cleaning and Storage :

> **⚠ WARNING**
> To avoid electrical shock or damage to the instrument, do not get water inside the case.

Periodically wipe the case with a damp cloth and detergent. Do not use abrasives or solvents.
If the meter is not used for over 60 days, remove the batteries for storage.

Due to our policy of constant improvement and development, we reserve the right to change specifications without notice.