

DIGITAL VOLTAGE DETECTOR

Instruction
Manual

MODEL **V-550**

MULTI

Thanks for your purchasing of our voltage detector.
Before operating this instrument, read rule for safe operation and instructions carefully.

1. FEATURES

- High input impedance for safe operation.
- V-550 provides super detection for AC earth voltage up to 500V.
- Voltage is detectable on insulated lines with instantaneous response.

2. SAFETY RULES

- Before operating this instrument, familiarize yourself with all instructions outlined in this manual.
- Always check to make sure that the function switch is set to the proper position.
- When making measurements, use CAUTION as dangerous voltages may be present in normally safe areas.
- To avoid electrical shock, use CAUTION when working above 60V DC or 25V AC rms. Such voltages pose a shock hazard.
- Never make measurements with the battery cover OFF.
- Never fail to keep the maximum tolerable input.
- Never operate this instrument if it becomes wet, damp or has any liquid condensation build-up on any part of the instrument.

3. SPECIFICATIONS

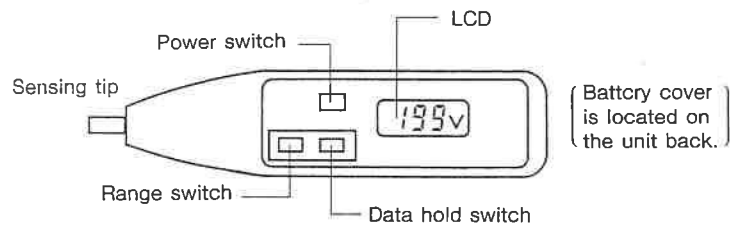
Range	H	L
Object to be measured	<ul style="list-style-type: none">● Naked conductor.● Metal parts of the receptacle.● Metal terminal of the electric circuit.	<ul style="list-style-type: none">● Insulated parts or terminal.● Insulated conductor.
Detectable voltage	AC15V ~ 500V	AC15V ~ 500V
Accuracy (23°C±5°C, 80% RH or less)	±3% of reading	Approximate value

Measuring voltage : AC earth voltage
Display : 3 digit LCD
Data hold indication : "DH" mark on LCD
Low battery indication : "B" mark on LCD
Test completion : Beeper
Limitation of circuit voltage : Less than AC 500V
Frequency : 50/60Hz
Operating temperature : 0°C to 40°C, <80% RH
Storage temperature : -10°C to 60°C, <70% RH
Power supply : SR-44(1.55V)×2 or LR-44×2
Battery life : Approx. 70 hours continuous (by LR-44)
Size : 30(W)×130(H)×14(D)mm
Weight : Approx. 37g

4. CAUTION BEFORE OPERATION

- V-550 is for use with low-power lines. Do not use it with high-power lines.
- Contact the sensing tip firmly to the object to be measured.
- If V-550 is used near noise generating equipment, or the equipment to be measured is not grounded, be aware that the display may become unstable or indicate large errors.
- The V-550 is designed for low voltage applications. To avoid electrical shock or damage, the measurement is limited to the circuit under 500V AC.
- The conductor in the shielded pipe can not be measured.

5. PANEL FUNCTION



6. METHOD OF MEASUREMENT

- ① Press the power switch once, "000" is displayed.
- ② Set the range switch to a range appropriate to the object to be measured.
- ③ Hold the unit body and contact the sensing tip firmly to the conductor or object under test, and read the displayed value.
- ④ If you make measurements in a dark place or in a place where it is difficult to see the readings, use the data hold switch. After measurement, turn the power switch to OFF. The power is automatically turned to OFF at 5 minutes later after last switch operation.

Note for operation

- In a single-phase or three-phase electric circuit, the one of the conductors is earthed. The earthed conductor can not be detected, make measurements with another conductor.
- If the data hold switch was set to ON, the measurement is not operative. Set the data hold switch to OFF before measurement.
- When making measurement for the extended cord, or when making measurement for the insulated conductors, be aware that the display indicate the lower value.

7. REPLACEMENT OF BATTERIES

When the battery becomes exhausted or drops below the operating voltage, the "B" mark is displayed. Turn the power switch to "OFF", prior to installing batteries. To install the batteries, remove the battery cover located on the unit back. Insert the two LR-44 or SR-44 into the battery case making sure that proper polarity is observed. Always replace both batteries at the same time. If the difference between the voltages of the batteries is big, the measurement error may be caused.

8. MAINTENANCE

When making requests for repair service, please bring the instrument directly to the dealer. If this is impossible, however, send the instrument directly to our sales office. When mailing this instrument, always pack it in its original or equivalent packing material and pack together with name, address, telephone number and the warranty documentation.

- To ensure speedy and reliable repair, always include information as the type of failure and cause.
- If required, always return accessories with the instrument.
- When contacting us, provide the model number and serial number of your instrument.

MULTI MEASURING INSTRUMENTS CO., LTD.
Akihabara Murai Bldg., 7F,
1-26 Kanda Sakuma-cho,
Chiyoda-ku, Tokyo, 101-0025
JAPAN
TEL: +81-3-3251-7013
FAX: +81-3-3253-4278
Home Page: <http://www.multimic.com/>
Email: multi@multimic.com