Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Nippon America IS-9606 Templm

Nippon America Digital Multimeter IS-9606 Templm User Manual

Model: IS-9606 Templm

1. Introduction

This manual provides essential instructions for the safe and effective use of your Nippon America Digital Multimeter, Model IS-9606 Templm. This device is a portable, battery-powered instrument designed for measuring various electrical parameters including AC/DC voltage, AC/DC current, resistance, continuity, capacitance, frequency, diode, and temperature. It features a 6000-count display, auto-ranging capabilities, True RMS measurement, backlight, data hold, and auto power-off function.
Please read this manual thoroughly before operating the device and retain it for future reference.

2. Safety Information

Always adhere to the following safety precautions to prevent personal injury and damage to the multimeter or equipment under test.

- Do not exceed the maximum input values specified for each measurement range.
- Exercise extreme caution when working with live circuits. High voltages can be dangerous.
- Ensure the test leads are in good condition, without any damage to the insulation.
- Never connect the multimeter to a voltage source when the rotary switch is set to current, resistance, or diode mode.
- Always disconnect the test leads from the circuit before changing the function or range.
- Replace batteries when the low battery indicator appears to ensure accurate readings.
- Do not operate the multimeter if it appears damaged or if the battery cover is not properly closed.
- Refer to the CAT III 600V and CAT II 1000V ratings for appropriate measurement environments.

3. Product Overview

The Nippon America Digital Multimeter IS-9606 Templm is designed for ease of use and durability. Below is an overview of its main components.

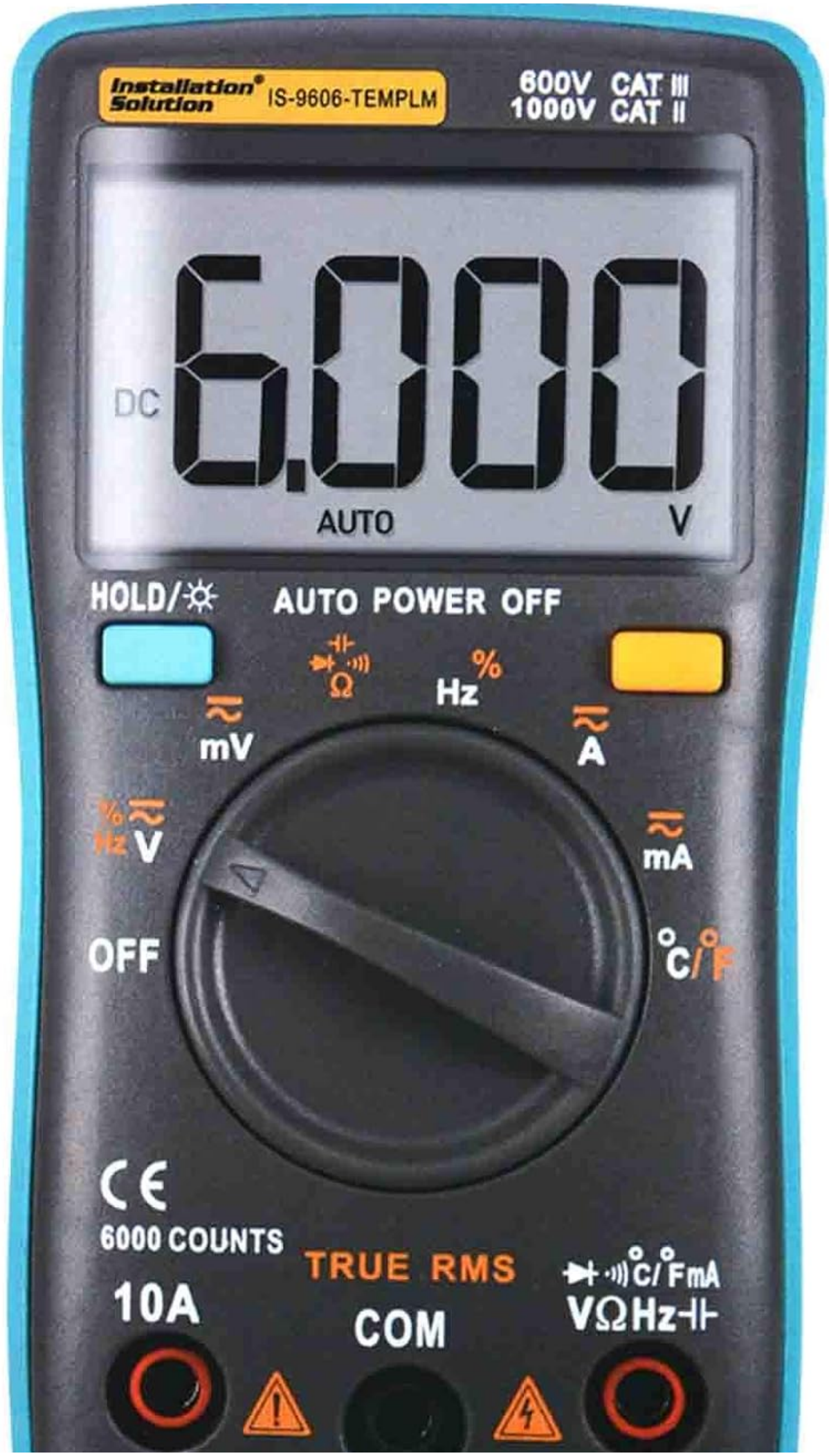

Installation Solution
IS-9606-TEMPLM
600V CAT III
1000V CAT II
DC
6.000
AUTO
V
HOLD/☼
AUTO POWER OFF
Ω
Hz %
mV
A
V
mA
OFF
°C/°F
CE
6000 COUNTS
TRUE RMS
10A
COM
°C/°F mA
VΩHz



Figure 3.1: Front view of the IS-9606 Templm Digital Multimeter, showing the LCD display, rotary switch, function buttons, and input jacks.

3.1. Components

- **LCD Display:** 6000 counts with backlight, showing measurement values, units, and function indicators.
- **Function Buttons:** Includes HOLD/Backlight, AUTO POWER OFF, and SEL (Select) for switching between functions within a rotary switch position.
- **Rotary Switch:** Used to select the desired measurement function (e.g., V~, V-, A~, A-, Ω, •))), Hz, °C/°F).
- **Input Jacks:**
    - **COM:** Common input jack for the black test lead.
    - **VΩHz™+:** Input jack for voltage, resistance, frequency, capacitance, diode, and temperature measurements (red test lead).
    - **mA:** Input jack for milliampere current measurements (red test lead).
    - **10A:** Input jack for 10 Ampere current measurements (red test lead).
- **Kickstand:** Integrated kickstand for convenient hands-free operation.



Figure 3.2: Side view of the multimeter showing the integrated kickstand for angled viewing.

4. Setup

4.1. Battery Installation

The multimeter requires two 1.5V AAA batteries (included). To install or replace batteries:

1. Ensure the multimeter is turned OFF and disconnect all test leads.
2. Locate the battery compartment on the back of the unit.
3. Use a screwdriver to open the battery compartment cover.
4. Insert two AAA batteries, observing the correct polarity (+ and -) as indicated inside the compartment.
5. Replace the battery compartment cover and secure it with the screw.



Figure 4.1: The multimeter package includes test leads, a temperature probe, and AAA batteries for immediate use.

5. Operating Instructions

Before making any measurements, ensure the correct function is selected and the test leads are connected to the appropriate input jacks.



Figure 5.1: Overview of measurement functions and features.

5.1. AC/DC Voltage Measurement

1. Insert the black test lead into the COM jack and the red test lead into the VΩHz™+ jack.
2. Turn the rotary switch to the V~ (AC Voltage) or V- (DC Voltage) position. The multimeter will automatically select the appropriate range.
3. Connect the test leads in parallel to the circuit or component you wish to measure.
4. Read the voltage value on the LCD display.

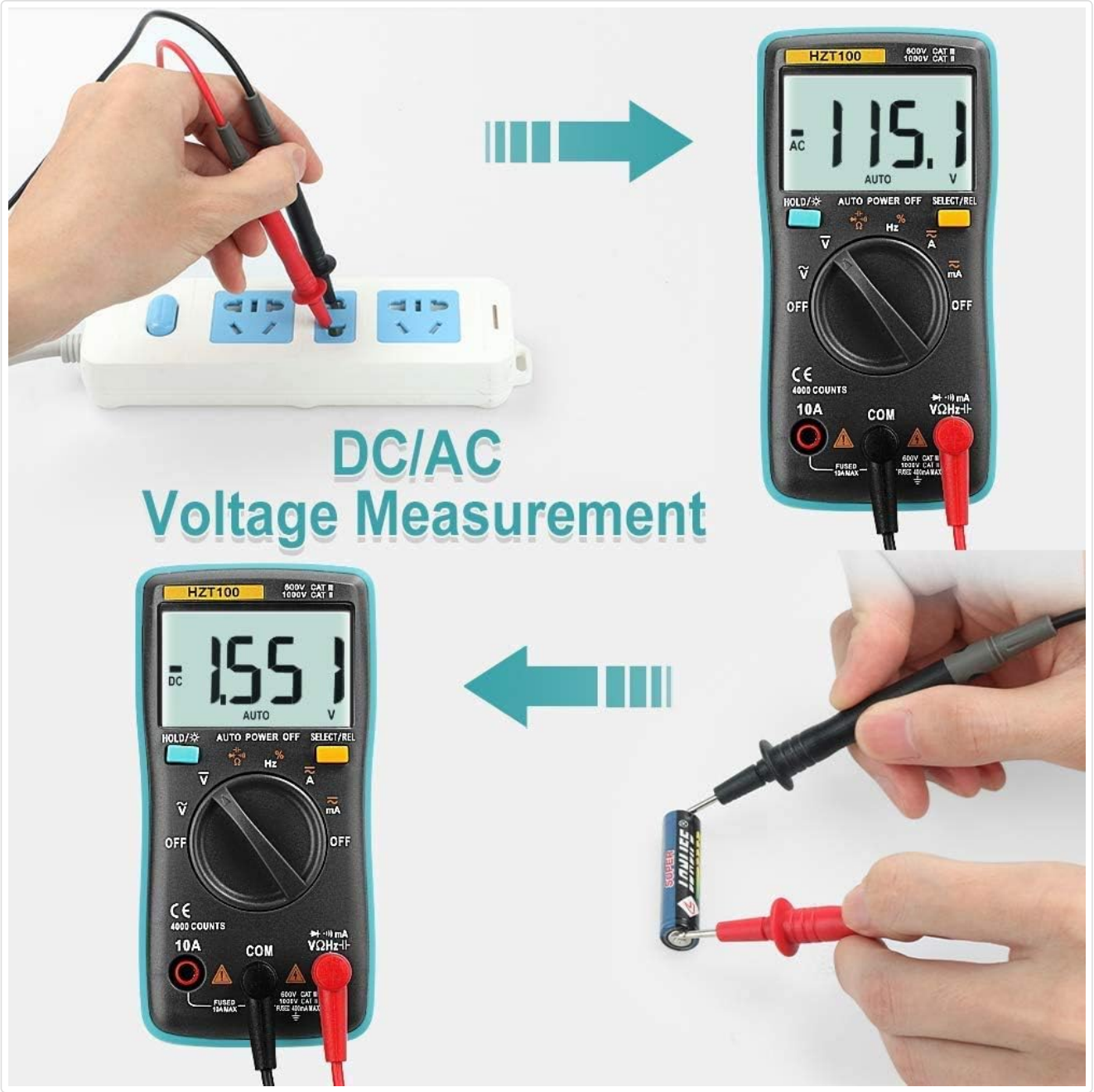


Figure 5.2: Example of AC/DC Voltage Measurement.

5.2. AC/DC Current Measurement

Caution: Never attempt to measure current in parallel with a voltage source. Always connect the multimeter in series with the circuit.

1. Insert the black test lead into the COM jack. For currents up to 600mA, insert the red test lead into the mA jack. For currents up to 10A, insert the red test lead into the 10A jack.
2. Turn the rotary switch to the A~ (AC Current) or A- (DC Current) position. Use the SEL button to switch between AC and DC if necessary.
3. Open the circuit where you want to measure current and connect the multimeter in series.
4. Read the current value on the LCD display.

5.3. Resistance Measurement (Ω)

1. Insert the black test lead into the COM jack and the red test lead into the VΩHz™+ jack.
2. Turn the rotary switch to the Ω position.

3. Ensure the component is de-energized. Connect the test leads across the component.
4. Read the resistance value on the LCD display.

5.4. Continuity Test (•)))

1. Insert the black test lead into the COM jack and the red test lead into the VΩHz™+ jack.
2. Turn the rotary switch to the •))) position.
3. Ensure the circuit is de-energized. Connect the test leads across the circuit or component.
4. If the resistance is below approximately 50Ω, the buzzer will sound, indicating continuity.

5.5. Diode Test (™+)

1. Insert the black test lead into the COM jack and the red test lead into the VΩHz™+ jack.
2. Turn the rotary switch to the ™+ position.
3. Ensure the diode is de-energized. Connect the red test lead to the anode and the black test lead to the cathode.
4. Read the forward voltage drop on the LCD display. Reverse the leads to check for open circuit (OL) indication.

5.6. Capacitance Measurement

1. Insert the black test lead into the COM jack and the red test lead into the VΩHz™+ jack.
2. Turn the rotary switch to the capacitance symbol position.
3. Ensure the capacitor is fully discharged before connecting the test leads.
4. Connect the test leads across the capacitor.
5. Read the capacitance value on the LCD display.

5.7. Frequency Measurement (Hz)

1. Insert the black test lead into the COM jack and the red test lead into the VΩHz™+ jack.
2. Turn the rotary switch to the Hz position.
3. Connect the test leads in parallel to the circuit where you want to measure frequency.
4. Read the frequency value on the LCD display.

5.8. Temperature Measurement (°C/°F)

1. Insert the temperature probe into the VΩHz™+ and COM jacks, observing polarity.
2. Turn the rotary switch to the °C/°F position.
3. Place the tip of the temperature probe on or near the object whose temperature you wish to measure.
4. Read the temperature value on the LCD display. Use the SEL button to switch between Celsius and Fahrenheit.

5.9. Data Hold and Backlight

- Press the **HOLD** button to freeze the current reading on the display. Press again to release.
- Press and hold the **HOLD** button to activate the display backlight. Press and hold again to turn off.

5.10. Auto Power Off

The multimeter will automatically power off after approximately 15 minutes of inactivity to conserve battery life. To disable this feature, refer to the full product manual or contact support.

6. Maintenance

6.1. Cleaning

Wipe the case with a damp cloth and mild detergent. Do not use abrasives or solvents. Ensure the multimeter is completely dry before use.

6.2. Battery Replacement

Replace the batteries as described in Section 4.1 when the low battery indicator appears on the display. Always use two new 1.5V AAA alkaline batteries.

6.3. Fuse Replacement

If the current measurement function fails, the fuse may need replacement. Refer to the full product manual for detailed instructions on fuse replacement, as this typically requires opening the device and specific fuse types.

7. Troubleshooting

Problem	Possible Cause	Solution
No display or dim display	Low or dead batteries	Replace batteries (Section 4.1)
Incorrect readings	Incorrect function/range selected; poor test lead connection; external interference	Verify rotary switch position and test lead connections. Ensure proper measurement technique.
Current measurement not working	Blown fuse	Replace fuse (refer to full manual for details).
Multimeter turns off unexpectedly	Auto Power Off activated; low battery	Press any button to reactivate. Replace batteries if low.

8. Specifications



Figure 8.1: Key specifications and features.

8.1. General Specifications

- **Display (LCD):** 6000 counts
- **Ranging:** Auto
- **Material:** ABS (body), PVC (test leads)
- **Update Rate:** 3 times/second

- **Low Battery Indication:** Yes
- **True RMS:** Yes
- **Data Hold:** Yes
- **Backlight:** Yes
- **Auto Power Off:** Yes
- **Safety Rating:** CAT III 600V, CAT II 1000V

8.2. Mechanical Specifications

- **Dimensions:** 5.1" x 2.6" x 1.3" (130mm x 66mm x 33mm)
- **Weight:** 0.25 Lbs (approx. 113g, without batteries)
- **Battery Type:** 2 x 1.5V AAA Battery

8.3. Environmental Specifications

- **Operating Temperature:** 0~40°C (32~104°F)
- **Operating Humidity:** <75% RH
- **Storage Temperature:** -20~60°C (-4~140°F)
- **Storage Humidity:** <80% RH

8.4. Electrical Specifications (Typical)

Detailed accuracy and range specifications for each measurement function can be found in the full product manual. General measurement types include:

- DC Voltage
- AC Voltage (True RMS)
- DC Current
- AC Current (True RMS)
- Resistance
- Continuity
- Diode Test
- Capacitance
- Frequency
- Temperature

9. Warranty and Support

This product comes with a standard manufacturer's warranty. For specific warranty terms, duration, and conditions, please refer to the warranty card included with your purchase or contact Nippon America customer support. For technical assistance or further inquiries, please reach out to your retailer or the manufacturer's support channels.

© 2023 Nippon America. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B087R9PK2Y

More documents and user manuals: **https://manuals.plus/**