

[Manuals.plus](#) /

› [GuliTech](#) /

› GuliTech VICTOR 890H+ Digital Multimeter Instruction Manual

GuliTech 890H+

GuliTech VICTOR 890H+ Digital Multimeter Instruction Manual

Model: VICTOR 890H+

1. PRODUCT OVERVIEW

The GuliTech VICTOR 890H+ is a high-precision digital multimeter designed for measuring various electrical parameters. It features an auto-ranging function, a large LCD display with backlight, and robust overload protection, making it suitable for both professional and DIY applications.



Figure 1: Front view of the VICTOR 890H+ Digital Multimeter.

Key Features:

- **Wide Measuring Range:** Measures DC/AC voltage, DC/AC current, Resistance, Capacitance, Diode test, NCV test, Live test, Frequency, and Temperature.
- **2.7" Large LCD Display:** 59x36mm screen with large digital readout and backlight for clear visibility.
- **Auto Power-off:** Automatically shuts down after 15 minutes of inactivity to conserve battery life.
- **Overload Protection:** Built-in double fuse provides comprehensive protection for safe operation.
- **Portable Design:** Includes a bracket for support and can be hung on a wall.
- **Additional Functions:** Bargraph, Max/Min hold, Data hold, Continuity, True RMS, Low battery indication, Double color backlight, Input jack LED indicator, and work light.

HIGH-PRECISION DIGITAL MULTIMETER



Figure 2: The VICTOR 890H+ (right) features auto-ranging and temperature measurement, while the 890G+ (left) is manual range.

2. SETUP

2.1 Battery Installation

The multimeter requires 1 Lithium Ion battery (included). Ensure correct polarity when installing or replacing the battery.

1. Locate the battery compartment on the back of the multimeter.
2. Open the battery cover using a screwdriver if necessary.

3. Insert the Lithium Ion battery, observing the polarity markings (+/-).
4. Securely close the battery cover.

2.2 Test Lead Connection

Connect the test leads to the appropriate input jacks for your desired measurement.

1. Insert the black test lead into the "COM" (Common) jack.
2. For most voltage, resistance, frequency, capacitance, and diode measurements, insert the red test lead into the "VΩHz%Live" jack.
3. For current measurements (mA), insert the red test lead into the "mA" jack.
4. For high current measurements (10A), insert the red test lead into the "10A" jack.



Figure 3: The multimeter features a test pen storage design and a built-in flashlight on the back.

3. OPERATING INSTRUCTIONS

3.1 Power On/Off

Rotate the central range knob from the "OFF" position to any desired measurement function to power on the multimeter. To power off, rotate the knob back to the "OFF" position.

3.2 Function Selection (Auto Range)

The VICTOR 890H+ features auto-ranging, simplifying operation. Select the desired measurement type (e.g., V~ for AC Voltage, V- for DC Voltage, Ω for Resistance) using the central range knob. The multimeter will automatically select the appropriate range.



Figure 4: The intuitive range knob allows selection of various measurement functions.

3.3 Non-Contact Voltage (NCV) Measurement

The NCV function allows detection of AC voltage without direct contact with wires, enhancing safety.

1. Rotate the range knob to the "NCV" position.
2. Bring the top part of the multimeter close to the conductor being tested.
3. If AC voltage is detected (range 48-220V), the red indicator light will flash, and an audible beep will sound.

NCV non-contact measurement

The NCV induction voltage range is 48~220V. When the meter is gradually approached to the point to be detected, the AC voltage intensity is detected, the red indicator light of the meter flashes and the buzzer beeps at the same time.



Figure 5: Demonstrating the NCV function for detecting AC voltage.

3.4 Data Hold (HOLD)

Press the "HOLD" button to freeze the current reading on the display. Press it again to release and resume live readings.

3.5 Maximum/Minimum Value (MAX/MIN)

Press the "MAX/MIN" button to record and display the maximum or minimum measured value. Press again to cycle through MAX, MIN, and current readings.

3.6 Backlight and Work Light

Press the backlight button (often combined with the flashlight icon) to turn on the display backlight. A long press may activate the work light (flashlight) located on the back of the device.

4. MAINTENANCE

4.1 Cleaning

To clean the multimeter, use a soft, damp cloth. Do not use abrasive cleaners or solvents, as these may damage the casing or display. Ensure the device is powered off and disconnected from any circuits before cleaning.

4.2 Battery Replacement

When the low battery indicator appears on the display, replace the battery promptly to ensure accurate measurements. Refer to section 2.1 for battery installation instructions.

4.3 Safety Precautions

- Always ensure the multimeter is set to the correct function and range before making measurements.
- Do not exceed the maximum input values specified for each function.
- Inspect test leads for damage before each use. Replace if insulation is compromised.
- The built-in double fuse provides overload protection. If a fuse blows, it must be replaced with a fuse of the same type and rating.
- Adhere to safety ratings: CAT III 1000V, CAT IV 600V.

5. TROUBLESHOOTING

5.1 "OL" Displayed

If "OL" (Overload) is displayed, it indicates that the measured value exceeds the selected range or the maximum input capacity of the multimeter. In auto-ranging mode, this typically means the value is beyond the device's overall measurement capability for that function. Disconnect the test leads immediately and verify the circuit's expected value or switch to a higher capacity meter if available.

5.2 No Display or Faint Display

- Check if the multimeter is powered on (range knob not in "OFF" position).
- Verify battery charge. Replace the battery if the low battery indicator is present or if the display is faint.
- Ensure the display backlight is not off in dark conditions.

5.3 Incorrect Readings

- Ensure test leads are correctly inserted into the appropriate jacks for the selected function.
- Verify that the range knob is set to the correct measurement type.
- Check for damaged test leads or poor connections.
- Ensure the battery has sufficient charge.

6. SPECIFICATIONS

Model	VC890G+	VC890H+
DCV	600mV/6V/60V/600V/1000V	600mV/6V/60V/600V/1000V
ACV	6V/60V/600V/750V	600mV/6V/60V/600V/750V
DCA	60uA/60mA/600mA/10A	600uA/60mA/600mA/10A
ACA	60mA/600mA/10A	600uA/60mA/600mA/10A
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ
Capacitance	10nF/100nF/1000nF/10uF/100uF	10nF/100nF/1000nF/10uF/100uF
	1000uF/10mF/100mF	1000uF/10mF/100mF
Frequency	10Hz/100Hz/1000Hz/	10Hz/100Hz/1000Hz/
	10kHz/100kHz/1000kHz	10kHz/100kHz/1000kHz
Duty Cycle	10MHz/1~99%	10MHz/1~99%
Temperature		(-20~1000) °C (-4~1832) °F
Display method	LCD digital display	
Maximum display	6000	
Diode measurement	√	
Data retention	√	
NCV	√	
Backlight	√	
Overload indication	OL is displayed on LCD	
Low pressure prompt	√	
Fire detection	√	
On-off beep	√	
Input jack prompt	√	
Flashlight	√	
Automatic shut-down	√	
Unit symbol	√	
Max/min	√	
True effective value	√	
Two-color backlight	White+orange	

Figure 6: Detailed technical specifications for VICTOR 890G+ and 890H+ models.

VICTOR 890H+ Key Specifications

Parameter	Specification
Display	6000 counts, LCD digital display
DC Voltage (DCV)	600mV/6V/60V/600V/1000V
AC Voltage (ACV)	6V/60V/600V/750V
DC Current (DCA)	600uA/6000uA/60mA/600mA/10A
AC Current (ACA)	600uA/6000uA/60mA/600mA/10A
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ
Capacitance	10nF/100nF/1000nF/10uF/100uF/1000uF/10mF/100mF
Frequency	10Hz/100Hz/1000Hz/10kHz/100kHz/1000kHz
Duty Cycle	1%~99%
Temperature	-20°C to 1000°C (-4°F to 1832°F)
Bandwidth	1kHz
Safety Rating	EN61010-1, -2-030 EN61010-2-033, EN61326-1 CAT III 1000V, CAT IV 600V
Dimensions	22 x 15 x 12 cm
Weight	0.5 kg
Power Source	Battery Powered (1 Lithium Ion battery included)
Auto Power-off	15 minutes
Backlight	Yes, two-color (White + Orange)
True RMS	Yes
NCV	Yes

7. WARRANTY INFORMATION

The GuliTech VICTOR 890H+ Digital Multimeter comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

8. SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact your retailer or the manufacturer's customer support. Refer to the product packaging or the retailer's website for specific contact details.

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