

RQG MY2600D

RQG MY2600D Digital Clamp Multimeter User Manual

Model: MY2600D

1. INTRODUCTION

The RQG MY2600D is a versatile digital clamp multimeter designed for accurate measurement of various electrical parameters. It features AC/DC current, AC/DC voltage, resistance, capacitance, frequency, temperature, diode, and continuity tests. Equipped with True RMS, 6000 counts display, NCV function, and high voltage protection, this device is suitable for both professional and home electrical troubleshooting.



Image 1.1: The RQG MY2600D Digital Clamp Multimeter with its included accessories, including test leads and a thermocouple probe.

2. SAFETY INFORMATION

To ensure safe operation and avoid damage to the meter, please read and follow all safety instructions carefully. Failure to observe these warnings can result in severe injury or death.

- Always adhere to local and national safety codes.
- Do not use the meter if it appears damaged or if the insulation on the test leads is compromised.
- Do not apply more than the rated voltage, as marked on the meter, between terminals or between any terminal and earth ground.
- Use caution when working with voltages above 30V AC RMS, 42V peak, or 60V DC. These voltages pose a shock hazard.
- Always disconnect the test leads from the circuit before changing functions.
- Ensure the battery cover is securely closed before operation.
- Do not operate the meter in explosive gas, vapor, or dust environments.
- The meter is certified to EN61010-1 CAT III 600V. Observe these ratings.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x RQG MY2600D Digital Clamp Multimeter
- 1 x Pair of Test Leads (Red and Black)
- 1 x Thermocouple Probe
- 1 x Pouch
- 1 x User Manual

PRODUCT PACKAGING

QUALITY SHOWS QUALITY DETAILS



**1. Package Box; 2. Pouch; 3. Clamp Multimeter;
4. Test Leads; 5. Thermocouple Probe; 6. AAA batteries**

Image 3.1: The complete product packaging and its contents, showing the multimeter, test leads, thermocouple probe, pouch, and AAA batteries.

4. PRODUCT OVERVIEW

Familiarize yourself with the components of the MY2600D Digital Clamp Multimeter:



Image 4.1: A detailed diagram illustrating the various parts of the MY2600D multimeter, including the NCV sensor, current clamp, display, function dial, and input terminals.

1. **NCV Inductive Probe:** Detects non-contact AC voltage.
2. **Current Clamp Mouth:** Used for non-contact AC/DC current measurement. The maximum opening is 33mm.
3. **Flashlight:** Illuminates the measurement area.
4. **Trigger:** Opens the current clamp jaw.
5. **Functional Range Switch:** Rotary dial to select measurement functions.
6. **Pilot Lamp:** Indicator light for various functions, including NCV.
7. **Function Toggle Keys (SEL):** Selects sub-functions within a main rotary switch position (e.g., AC/DC, Diode/Continuity).
8. **Hold / Backlight Keys (H/*):** Press to hold data on display; long press to activate/deactivate backlight.
9. **Flashlight Button:** Activates the built-in flashlight.
10. **Liquid-Crystal Display:** Shows measurement readings and indicators.
11. **COM Input:** Common (negative) input terminal for test leads.
12. **INPUT End:** Positive input terminal for test leads (voltage, resistance, capacitance, frequency, diode, continuity, temperature).



Image 4.2: The clamp meter held in hand, demonstrating the 33mm jaw opening for current measurement.

5. SETUP

5.1 Battery Installation

The MY2600D requires two 1.5V AAA batteries for operation.

1. Ensure the meter is turned OFF.
2. Locate the battery compartment on the back of the meter.
3. Use a screwdriver to open the battery compartment cover.
4. Insert two 1.5V AAA batteries, observing the correct polarity (+/-).
5. Replace the battery compartment cover and secure it with the screw.

5.2 Connecting Test Leads

For voltage, resistance, capacitance, frequency, diode, continuity, and temperature measurements, connect the test leads:

- Insert the red test lead into the **INPUT** terminal.
- Insert the black test lead into the **COM** terminal.

6. OPERATING INSTRUCTIONS

6.1 General Operation

- **Power On/Off:** Rotate the functional range switch from the OFF position to any desired measurement function to turn on the meter. Rotate back to OFF to power off.
- **Function Selection:** Turn the rotary switch to the desired measurement function. For functions with multiple modes (e.g., AC/DC, Diode/Continuity), press the **SEL** button to toggle between modes.
- **Data Hold:** Press the **H/*** button briefly to freeze the current reading on the display. Press again to release.
- **Backlight:** Long press the **H/*** button to turn the display backlight on or off.
- **Flashlight:** Press the flashlight button to turn the built-in flashlight on or off.
- **Auto Off:** The meter will automatically power off after approximately 15 minutes of inactivity to conserve battery life.

6.2 Measuring AC/DC Current (Clamp Function)

This function allows non-contact measurement of current.

1. Rotate the functional range switch to the **600A** or **60A** (AC/DC current) position.
2. Press the **SEL** button to select between AC or DC current measurement.
3. Press the trigger to open the clamp jaw.
4. Enclose only **one** conductor (wire) within the clamp jaw. Ensure the jaw is fully closed.
5. Read the current value on the display.



Image 6.1: The clamp meter in use, measuring current on a single conductor.

6.3 Measuring AC/DC Voltage

1. Connect the test leads as described in Section 5.2.
2. Rotate the functional range switch to the $V\sim$ (AC Voltage) or $V-$ (DC Voltage) position. If combined, press **SEL** to select AC or DC.
3. Connect the test probes in parallel to the circuit or component you wish to measure.
4. Read the voltage value on the display.

6.4 Measuring Resistance

1. Connect the test leads as described in Section 5.2.
2. Rotate the functional range switch to the Ω (Resistance) position.
3. Ensure the circuit or component is de-energized before measuring resistance.
4. Connect the test probes across the component.
5. Read the resistance value on the display.

6.5 Measuring Capacitance

1. Connect the test leads as described in Section 5.2.
2. Rotate the functional range switch to the \dagger (Capacitance) position.

3. Ensure the capacitor is fully discharged before measurement to prevent damage to the meter.
4. Connect the test probes across the capacitor terminals.
5. Read the capacitance value on the display.

6.6 Diode Test

1. Connect the test leads as described in Section 5.2.
2. Rotate the functional range switch to the Ω (Resistance) position, then press **SEL** until the diode symbol (\dagger) appears.
3. Connect the red test probe to the anode and the black test probe to the cathode of the diode.
4. The display will show the forward voltage drop. Reverse the probes; the display should show OL (Open Loop) for a good diode.

6.7 Continuity Test

1. Connect the test leads as described in Section 5.2.
2. Rotate the functional range switch to the Ω (Resistance) position, then press **SEL** until the continuity symbol (\pitchfork) appears.
3. Connect the test probes across the circuit or component.
4. If the resistance is below approximately 50Ω , the buzzer will sound, indicating continuity.

6.8 Frequency and Duty Cycle

1. Connect the test leads as described in Section 5.2.
2. Rotate the functional range switch to the **Hz/%** (Frequency/Duty Cycle) position.
3. Press **SEL** to toggle between Frequency (Hz) and Duty Cycle (%).
4. Connect the test probes in parallel to the signal source.
5. Read the frequency or duty cycle value on the display.

6.9 Temperature Measurement

1. Ensure the meter is OFF.
2. Insert the thermocouple probe into the **INPUT** and **COM** terminals, observing polarity.
3. Rotate the functional range switch to the $^{\circ}\text{C}/^{\circ}\text{F}$ (Temperature) position.
4. Press **SEL** to toggle between Celsius ($^{\circ}\text{C}$) and Fahrenheit ($^{\circ}\text{F}$).
5. Place the tip of the thermocouple probe on the object or in the environment whose temperature you wish to measure.
6. Read the temperature value on the display.

6.10 NCV (Non-Contact Voltage) Detection

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

1. Rotate the functional range switch to the **NCV** position.
2. Move the NCV inductive probe (top part of the clamp) close to the conductor or outlet.
3. If AC voltage is detected, the meter will emit an audible beep and the pilot lamp will flash, with increasing frequency as the voltage intensity increases.

NCV

NON-CONTACT VOLTAGE INDUCTION

WHEN THE NON-CONTACT VOLTAGE SENSING AREA IS CLOSE TO THE CIRCUIT, THE AC VOLTAGE CLAMP METER WILL AUTOMATICALLY DETECT THE VOLTAGE INTENSITY AND GIVE AN AUDIBLE AND VISUAL PROMPT



Image 6.2: The NCV function in action, demonstrating how the meter detects voltage without physical contact.

6.11 True RMS

The MY2600D features True RMS measurement, which provides accurate readings for both sinusoidal and non-sinusoidal AC waveforms. This is crucial for modern electrical systems where non-sinusoidal waveforms are common due to electronic loads.

7. MAINTENANCE

7.1 Cleaning

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

7.2 Battery Replacement

When the low battery indicator appears on the display, replace the batteries promptly to ensure accurate readings. Refer to Section 5.1 for battery installation instructions.

8. TROUBLESHOOTING

- **Meter does not power on:** Check battery installation and ensure batteries are not depleted.

- **No reading or 'OL' displayed:** Ensure test leads are properly connected and making good contact with the circuit. For current measurement, ensure only one conductor is within the clamp jaw. For resistance, ensure the circuit is de-energized.
- **Inaccurate readings:** Check battery level. Ensure correct function is selected and test leads are properly connected.
- **NCV not detecting:** Ensure the NCV sensor is close enough to the AC voltage source.

9. SPECIFICATIONS

Parameter	Specification
Model	MY2600D
Display	6000 counts
AC Current	6A/60A/600A
AC Voltage	6V/60V/600V
DC Current	6A/60A/600A
DC Voltage	600mV/6V/60V/600V
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ
Capacitance	6nF/600nF/6uF/60uF/600uF/6mF/60mF
Frequency	9.999/99.99/999.9Hz/9.999kHz/99.99kHz/999.9kHz/9.999MHz
Duty Cycle	0.1-99.9%
Temperature	-50°C-1300°C or -58°F-2372°F
True RMS	Yes
Continuity Test	Yes
Diode Test	Yes
NCV	Yes
Data Hold	Yes
Flashlight	Yes
Low Battery Indication	Yes
Clamping Opening	33mm
Certification	EN61010-1 CAT III 600V
Power Supply	2x 1.5V AAA battery
Dimensions	8.3 x 3.5 x 2.4 inches
Weight	14.4 ounces

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official RQG website. Keep your purchase receipt as proof of purchase for any warranty claims.

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