

## INFURIDER YF-36K

# INFURIDER YF-36K Digital Multimeter Instruction Manual

Model: YF-36K | Brand: INFURIDER

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## 1. INTRODUCTION

The INFURIDER YF-36K is an auto-ranging digital multimeter designed for versatile electrical measurements. It features a 4000-count display and can measure AC/DC voltage, AC/DC current, resistance, capacitance, temperature, frequency, hFE, diode, and continuity. This manual provides essential information for safe and effective use of the device.

**Important Safety Note:** Always read and understand all safety warnings and operating instructions before using the multimeter. Ensure proper connection of test leads and selection of measurement functions to prevent electrical shock or damage to the device.

## 2. PRODUCT COMPONENTS AND OVERVIEW

The INFURIDER YF-36K Digital Multimeter comes with the following components:

- 1 x YF-36K Multimeter Tester
- 1 x Test Leads (1 Pair)
- 1 x Temperature Probe
- 1 x 9V (6F22) Battery
- 1 x Protective Storage Bag
- 1 x User Manual



Figure 2.1: Front view of the INFURIDER YF-36K Digital Multimeter with key components labeled. This includes the LCD display, function selector switch, rotary switch, 10A input jack, COM input jack, and VΩmA Hz input jack.



Figure 2.2: The INFURIDER YF-36K Digital Multimeter package contents, including the multimeter, protective bag, manual, temperature probe, test leads, and 9V battery.

## 3. SETUP

### 3.1. Battery Installation

The INFURIDER YF-36K multimeter requires a 9V (6F22) battery for operation. A battery is included in the package.

1. Ensure the multimeter is turned OFF.
2. Locate the battery compartment cover on the back of the device.
3. Use a screwdriver to open the battery compartment.
4. Insert the 9V battery, observing the correct polarity (+ and -).
5. Replace the battery compartment cover and secure it with the screw.

### 3.2. Test Lead Connection

Connect the test leads to the appropriate input jacks on the multimeter based on the measurement you intend to perform:

- The black test lead (negative) should always be connected to the **COM** (Common) jack.
- For voltage, resistance, capacitance, frequency, diode, and continuity measurements, connect the red test lead (positive) to the **VΩmA Hz** jack.
- For current measurements up to 400mA, connect the red test lead to the **VΩmA Hz** jack.
- For high current measurements (up to 10A), connect the red test lead to the **10A** jack.

## 4. OPERATING INSTRUCTIONS

The INFURIDER YF-36K is an auto-ranging multimeter, simplifying operation by automatically selecting the correct measurement range.

### 4.1. Power On/Off

- To turn on the multimeter, rotate the rotary switch from the "OFF" position to any desired measurement function.
- To turn off the multimeter, rotate the rotary switch to the "OFF" position.
- The device features an auto power-off function after 15 minutes of inactivity to conserve battery life.

### 4.2. Backlight and Data Hold

- Press the **HOLD** button briefly to activate the Data Hold function, freezing the current reading on the display. Press again to release.
- Press and hold the **HOLD** button for over 2 seconds to turn the backlight ON/OFF. This is useful in dimly lit environments.



Figure 4.1: Close-up of the multimeter's display and controls, highlighting the HOLD button for data hold and backlight control.

### 4.3. Measuring AC/DC Voltage

1. Connect the black test lead to the **COM** jack and the red test lead to the **VΩmA Hz** jack.
2. Rotate the rotary switch to the **V~** (AC Voltage) or **V-** (DC Voltage) position.
3. Touch the test probes to the circuit or component you wish to measure.

4. Read the voltage value on the LCD display.



**Figure 4.2:** Demonstration of measuring DC voltage from a 9V battery and AC voltage from a power outlet using the multimeter.

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**Video 4.1:** This video demonstrates the process of measuring voltage using a digital insulation resistance tester. It shows how to connect the test leads and obtain a voltage reading from a power outlet.

#### 4.4. Measuring AC/DC Current

1. Connect the black test lead to the **COM** jack.
2. For current up to 400mA, connect the red test lead to the **VΩmA Hz** jack. For current up to 10A, connect the red test lead to the **10A** jack.
3. Rotate the rotary switch to the **A~** (AC Current) or **A-** (DC Current) position.
4. Open the circuit where you want to measure current and connect the multimeter in series with the circuit.
5. Read the current value on the LCD display.

#### 4.5. Measuring Resistance ( $\Omega$ )

1. Connect the black test lead to the **COM** jack and the red test lead to the **VΩmA Hz** jack.
2. Rotate the rotary switch to the  **$\Omega$**  (Resistance) position.
3. Ensure the circuit or component is de-energized before measuring resistance.
4. Touch the test probes across the component.
5. Read the resistance value on the LCD display.

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**Video 4.2:** This video demonstrates how to perform resistance measurements using the VC60B Digital Insulation Resistance Tester. It shows the connection of test leads and the process of obtaining resistance readings.

#### 4.6. Measuring Capacitance (Cap)

1. Connect the black test lead to the **COM** jack and the red test lead to the **VΩmA Hz** jack.
2. Rotate the rotary switch to the **Cap** position.
3. Discharge any capacitors before testing to prevent damage to the multimeter.
4. Touch the test probes across the capacitor.
5. Read the capacitance value on the LCD display.

#### 4.7. Measuring Temperature (Temp)

1. Connect the temperature probe to the **COM** and **VΩmA Hz** jacks, observing polarity.
2. Rotate the rotary switch to the **Temp** position (usually °C/°F).
3. Place the tip of the temperature probe on or near the object whose temperature you want to measure.
4. Read the temperature value on the LCD display.



Figure 4.3: The multimeter measuring the temperature of water using the included K-type thermocouple, displaying the reading in Celsius.

#### 4.8. Diode and Continuity Test

1. Connect the black test lead to the **COM** jack and the red test lead to the **VΩmA Hz** jack.
2. Rotate the rotary switch to the **Diode/Continuity** position.
3. For diode test: Touch the probes across the diode. A forward voltage drop will be displayed. Reverse the probes; an "OL" (Overload) reading indicates a good diode.
4. For continuity test: Touch the probes across the circuit or component. A continuous beep indicates continuity (low resistance).

## 5. SAFETY INFORMATION

The INFURIDER YF-36K Digital Multimeter is designed with safety in mind, adhering to IEC 1010, CAT III 600V, and CE standards. It includes overload protection on all ranges for secure and reliable operation.

- Always inspect the multimeter, test leads, and accessories for any damage before use. Do not use if damaged.
- Do not apply voltage or current that exceeds the maximum rated values for each function.
- Be cautious when working with live circuits. High voltages can cause severe injury or death.
- Ensure the correct function and range are selected before making measurements.
- Do not operate the multimeter in explosive atmospheres or in the presence of flammable gases or dust.
- Replace the battery when the low battery indicator appears to ensure accurate readings.



Figure 5.1: Visual representation of the safety features, including IEC 1010, CAT III 600V, CE standard compliance, and overload protection on all ranges.

## 6. MAINTENANCE

- **Cleaning:** Wipe the multimeter casing with a damp cloth and mild detergent. Do not use abrasives or solvents.
- **Battery Replacement:** Replace the 9V battery when the low battery indicator appears on the display. Refer to Section 3.1 for instructions.
- **Storage:** When not in use for extended periods, remove the battery and store the multimeter in its protective bag in a cool, dry place.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or dim display	Low battery or no battery installed.	Replace the 9V battery.
"OL" (Overload) displayed	Measurement exceeds the selected range or maximum input.	Select a higher range or ensure input is within device limits.
Incorrect readings	Incorrect function/range selected, poor test lead contact, or damaged leads.	Verify function/range, ensure good contact, check/replace test leads.

Problem	Possible Cause	Solution
Multimeter turns off unexpectedly	Auto power-off activated due to inactivity.	Turn the multimeter back on. This is a normal power-saving feature.

## 8. SPECIFICATIONS

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Feature	Value
Manufacturer	INFURIDER
Model Number	YF-36K
Item Weight	372 g
Product Dimensions	15.6 x 4.8 x 11 cm
Colour	Red
Power Source Type	Battery Powered
Measurement Accuracy	±0.5%
Safety Standard	IEC 1010, CAT III 600V, CE
Min. Operating Voltage	400 Millivolts
Upper Temperature Rating	1000 Degrees Celsius
Measurement Type	Multimeter, Ohmmeter, Voltmeter
UPC	770456379790

## 9. WARRANTY & SUPPORT

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INFURIDER provides a 365-DAY warranty for the YF-36K Digital Multimeter. For any quality problems or technical assistance, please feel free to contact us at any time. We are committed to solving your problem as soon as possible.

For further support, please visit the official INFURIDER store or contact customer service through your purchase platform.