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ETURBEV X5

TOOLTOP X5 400A AC DC Clamp Meter User Manual

Model: X5 | Brand: ETURBEV

1. Introduction

The TOOLTOP X5 is a versatile 400A AC/DC Clamp Meter designed for accurate electrical measurements. Featuring a large color screen, True RMS capabilities, and a wide range of functions including NCV, temperature, and frequency testing, it is an essential tool for professionals and DIY enthusiasts alike. This manual provides detailed instructions for the safe and effective use of your device.

Figure 1: TOOLTOP X5 Clamp Meter and Accessories

2. Key Features

- **Large Color Screen Display:** Features a 3-line display for clear and comprehensive readings.
- **Automatic Measurement Function:** Simplifies operation by automatically detecting measurement type.
- **NCV (Non-Contact Voltage) Function:** Allows for safe detection of AC voltage without direct contact.
- **Flashlight Function:** Provides illumination for working in dimly lit environments.
- **Multi-function Test Capabilities:** Measures AC/DC Voltage, AC/DC Current, Temperature, Frequency, Capacitance, Resistance, Line On/Off, and Diode.
- **True RMS:** Ensures accurate readings for non-sinusoidal waveforms.
- **6000 Counts Display:** Offers high resolution for precise measurements.

3. Package Contents

Please check the package contents upon unboxing to ensure all items are present and undamaged:

- 1 x TOOLTOP X5 Clamp Meter
- 1 x Pair of Test Leads
- 1 x K-Type Thermocouple
- 1 x User Manual (this document)

Figure 2: Overview of the Clamp Meter and its accessories

4. Setup

4.1 Battery Installation

The TOOLTOP X5 requires two 1.5V AAA batteries (not included) for operation.

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

Figure 3: Battery Compartment Location

4.2 Connecting Test Leads

For voltage, resistance, capacitance, diode, and line on/off tests, connect the test leads:

- Insert the **black** test lead into the **COM** (common) input jack.
- Insert the **red** test lead into the **VΩHz** input jack.

For temperature measurements, connect the K-type thermocouple to the appropriate input jacks as indicated on the meter.

5. Operation

5.1 Power On/Off and Display

Press the **Power** button to turn the meter on or off. The large LCD display will show readings, units, and function indicators. The meter features an automatic identification function for common measurements.

Figure 4: Detailed View of the Meter's Display

5.2 Measurement Functions

The TOOLTOP X5 offers a variety of measurement modes. Use the function buttons (e.g., SEL, Hz) to cycle through different modes if the auto-identification does not select the desired function.

- **AC/DC Voltage Measurement (600V Max):** Connect test leads to the circuit in parallel.
- **AC/DC Current Measurement (400A Max):** Open the clamp jaws and enclose a single conductor. *When testing DC current, ensure you are away from the object being measured, press the **REL** key to clear the reading, and then clamp onto the conductor.*
- **Resistance Measurement (600MΩ Max):** Connect test leads across the component.
- **Capacitance Measurement (60.00mF Max):** Connect test leads across the capacitor. Ensure capacitors are discharged before testing.
- **Frequency Measurement (60.0Hz - 1000Hz):** Connect test leads to the signal source.

- **Temperature Measurement (-40~1000°C / -40~1832°F):** Connect the K-type thermocouple to the meter and place the probe on the object to be measured.
- **Diode Test (1V Max):** Connect test leads across the diode.
- **NCV (Non-Contact Voltage) Test:** Bring the NCV sensor at the top of the meter close to an AC voltage source. The meter will beep and indicate voltage presence.
- **Live Wire Detection:** Use the Live function to identify live wires.
- **Line On/Off Test (Continuity):** Connect test leads across the circuit or component. A buzzer will sound for continuity.

Figure 5: Using the Clamp Function for Current Measurement

6. Maintenance

6.1 Cleaning

To clean the meter, use a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the meter is powered off and disconnected from any circuits before cleaning.

6.2 Battery Replacement

When the battery indicator on the display shows low power, replace the batteries promptly to ensure accurate readings. Refer to Section 4.1 for battery installation instructions.

6.3 Storage

Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.

7. Troubleshooting

- **Meter does not power on:** Check battery installation and ensure batteries are fresh.
- **"OL" or "-OL" displayed:** This indicates an over-range condition. The measured value exceeds the meter's maximum range for the selected function. Select a higher range if available, or ensure the measurement is within the meter's specifications.
- **Inaccurate readings:** Check battery level, ensure test leads are properly connected, and verify the correct measurement function is selected. Clean the test lead tips if necessary.
- **No NCV detection:** Ensure the NCV sensor is directly over the AC voltage source and that the voltage is sufficient for detection.

If issues persist, please contact customer support.

8. Specifications

Parameter	Value
Model	X5
AC Current	400A

Parameter	Value
DC Current	Max: 400A, Min: 200mA
DC Voltage	600V
AC Voltage	600V
Resistance	600MΩ
Capacitor	60.00mF
Temperature	-40~1000°C / -40~1832°F
Frequency	60.0Hz, 1000Hz
Diode Test	1V
Display	LCD, Max. 6000 digit
Sampling Time	Approx. 3 times/second (bargraph 10 times/second)
Auto Power Off	15 minutes
Power Supply	2 x 1.5V AAA batteries (not included)
Operating Temperature	18°C~28°C
Storage Temperature	-10°C~50°C
Net Weight	157g
Certification	CE

9. Safety Information

Please read and understand all safety warnings and operating instructions before using this meter. Failure to do so may result in injury or damage to the meter or equipment under test.

- Always ensure the meter is in the correct function and range for the measurement being performed.
- Do not exceed the maximum input limits for any function as specified in the specifications section.*The measured voltage cannot exceed the range allowed by this instruction manual.*
- Exercise extreme caution when working with live electrical circuits.
- Do not use the meter if it appears damaged or if the test leads are frayed or broken.
- Keep hands and fingers away from the clamp jaws when measuring current.
- Replace batteries immediately when the low battery indicator appears to ensure accurate readings.
- Do not operate the meter in explosive gas, vapor, or dust environments.

10. Warranty and Support

Your TOOLTOP X5 Clamp Meter is covered by a standard manufacturer's warranty against defects in materials

and workmanship. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or contact the seller directly.

For technical support, troubleshooting assistance, or inquiries regarding your product, please contact ETURBEV customer service through the platform where you purchased the device. Please have your model number and purchase details ready when contacting support.

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