

Uni-T UT118C Ψηφιακό πολύμετρο τύπου στυλό

UNI-T · EAN 6935750511831

Machine translation from Polski. In case of doubt the manufacturer's original document prevails.

User Manual UT118C

UT118C

Multimeter

User Manual

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Foreword

Thank you for purchasing this new product. To use this product safely and correctly, please read this manual carefully, especially the section regarding safety rules.

After reading this manual, it is recommended to store it in an easily accessible place, preferably near the device, for future reference.

Limited Warranty and Liability

Uni-Trend guarantees that the product is free from any material and workmanship defects for one year from the date of purchase. This warranty does not cover damages caused by accident, neglect, improper use, modification, contamination, or improper handling. The seller is not authorized to provide any other warranty on behalf of Uni-Trend. If you need warranty service during the warranty period, please contact the seller directly.

Uni-Trend is not liable for any special, incidental, or consequential damages or losses resulting from the use of the device.

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1. Overview

UT118C is a 6000-count True-RMS multimeter with high reliability and safety. With its

compact shape, flashlight, and very sharp probe tip, it can be used in narrow and dark environments as well as in concentrated circuits. The UT118C is designed with full-scale overload protection and a unique appearance, making it a next-generation meter with more practical parameters. The multimeter can be used to measure AC/DC voltage, resistance, diode, continuity, capacitance, frequency, and duty cycle, detect non-contact voltage (NCV), and identify live wires, etc. The UT118C has many features, including data hold, low voltage indication, backlight, flashlight, auto power off, automatic identification of continuity, resistance, and diode, etc.

2. Features

- 1) Lightweight; easy to carry.
- 2) Compact design allows use in confined spaces.
- 3) Flashlight enabling measurement in dark environments.
- 4) Extremely sharp, gold-plated probe for testing concentrated circuits on printed circuit boards.
- 5) Designed with a probe holder and a slot for the test lead.
- 6) Comprehensive protection against improper handling; capable of withstanding 600 V impact; designed with over-voltage alarm.
- 7) Automatic identification capability for continuity, resistance, and diode measurements.
- 8) Measurement of large capacitances (600nF~60mF).
- 9) The circuit is designed with an automatic energy-saving function; power consumption in sleep mode is $\leq 80\mu\text{A}$.
- 10) Adjustable probe tip length.
- 11) Designed with a large red backlight as an indicator.

Please read the related content regarding "Safety" and "Warnings" in the user manual carefully and strictly follow all warnings.

Warning: Carefully read the "Safety Information" before using the meter.

3. Accessories

If any accessory is found to be missing or damaged, please contact the supplier immediately.

User Manual 1 piece

Test lead 1 piece

AAA 1.5 V battery 1 piece

4. Safety Information

Pay attention to the "Labels and Warning Statements." A warning identifies conditions or actions that pose a threat to the user and may damage the meter or the equipment being tested.

The meter complies with IEC/EN61010-1, 61010-2-033, 61010-031 standards, electromagnetic radiation safety standard EN61326-1, basic insulation, overvoltage categories CAT III 600 V and CAT IV 300 V, pollution degree 2, and is for indoor use. Failure to follow the user manual may result in a breach or loss of protection provided by the meter.

- 1) Before use, check the meter and test leads to avoid damage or other issues. If any problems are found, such as an exposed test lead, damaged casing, incorrect display, etc., stop using it immediately.
- 2) It is prohibited to use the device without a properly closed cover, as this may pose a risk of electric shock.
- 3) If the insulation on the probe is damaged, it must be replaced with a new one that meets the EN 61010-031 standard, with parameters that are equal to or better than the product's parameters.
- 4) When the meter is measuring, do not touch the bare wire, connector, unused input terminal, or the circuit being tested.
- 5) Exercise caution when working with voltages above 30 V AC RMS or 42.4 V peak or 60 V DC; hold the test lead by the finger guard to avoid electric shock.
- 6) Set the meter to the maximum range if the measured range is unknown.
- 7) Do not apply excessive voltage or current between terminals or between any terminal and ground.
- 8) Set the rotary switch to the correct range. Before switching the rotary switch, disconnect the test lead from the circuit being measured. Switching during measurement is prohibited to

avoid

damage to the meter.

9) Before measuring resistance in a circuit, diode, or continuity, turn off the power to all measured devices and fully discharge all capacitors.

10) Never use the meter in circuits with voltages exceeding the meter's rated category.

11) To avoid electric shock, ensure that the test probes are disconnected from the circuit being

measured before opening the battery cover or rear cover.

12) When using the probe, hold the meter by the finger guard.

13) Do not store or use the meter in environments with high temperatures, high humidity, flammable and explosive substances, and strong electromagnetic fields.

14) Do not modify the internal wiring without authorization to avoid damaging the meter or creating safety hazards.

15) If the LCD displays the symbol " ", replace the battery in time to ensure measurement accuracy.

16) Turn off the power in a timely manner after completing the measurement. If the meter will

not be used for an extended period, remove the battery.

17) Before use, measure the known voltage of the meter to ensure it is functioning correctly.

18) The meter must be used according to the user manual; otherwise, the provided protection will

be compromised.

19) Clean the meter casing with a damp cloth and mild detergent. Do not use abrasive materials or

solvents.

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5. Electrical Symbols

Low battery level Battery

Alternating current Direct current

Both direct and alternating current Warning

Caution, risk of electric shock Grounding

Applicable for testing and measuring circuits connected

CAT II directly to disposal points (outlets and similar points) of the

low voltage MAINS installation.

CAT III Applicable for testing and measuring circuits connected to the distribution part of the low voltage MAINS installation of the building.

CAT IV Applicable for testing and measuring circuits connected to the source of the low voltage MAINS installation of the building.

Do not dispose of equipment and its accessories in the trash. Please ensure proper disposal in accordance with local regulations.

Compliance with European Union standards

Compliance with UL STD 61010-1, 61010-2-033, 61010-031 standards.

Certificate of compliance with CSA STD C22.2, NO. 61010-1, 61010-2-033, 61010-031.

6. General characteristics

1) Maximum voltage between signal terminal and COM terminal: Information about input voltage for each range can be found in the manual.

2) Number of displays: 6000

3) Range: Auto

4) Polarization display: Auto

5) Overrange indication: "OL"

6) Drop resistance: 1 m

7) Low battery level indicator: ≤ 1.2 V approximately

8) Power supply: 1 $\times$ AAA 1.5 V battery

9) Operating temperature: 0°C~50°C (32°F~122°F)

10) Storage temperature: -10°C~60°C (14°F~140°F)

11) Relative humidity: $\leq 80\%$ RH (0°C~30°C below); 75%RH (30°C~40°C); $\leq 45\%$ RH (40°C~50°C)

12) Maximum operating height: ≤ 2000 m

13) EMC: In accordance with standards EN61326-1:2021 and EN61326-2-2:2021

14) External dimensions: 182.5mm x 38.0mm x 38.5mm

15) Weight: Approximately 120 g

16) Safety standard: IEC 61010-1: CAT III 600V / CAT IV 300V

17) Pollution degree: 2

18) Operating environment: Indoor use

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7. External structure

Figure 1

- 1) Probe with V tip
- 2) Probe cap
- 3) Flashlight
- 4) Finger guard
- 5) Rotary switch
- 6) Function buttons
- 7) LCD display
- 8) COM connector
- 9) Test probe holder
- 10) Battery cover
- 11) Test lead socket

8. LCD display

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Symbol Description

TRMS True RMS

Low battery level indicator

Dangerous voltage

AC AC current measurement

— Negative reading

DC DC current measurement

Continuity measurement

Diode measurement

Data hold

AUTO Auto range

Scan Automatic scan identification

LIVE Live wire identification

NCV Non-contact voltage detection

APO Auto power off

Ω ,k Ω ,M Ω Resistance unit: ohm, kilohm, megaohm

Hz,kHz,MHz Frequency unit: hertz, kilohertz, megahertz

V Voltage unit: volt

nF, μ F,mF Capacitance unit: nanofarad, microfarad, millifarad

% Duty cycle unit: percent

9. Rotary switch

Position Description

Off

DC/AC voltage measurement

Continuity/resistance/diode measurement

Capacitance measurement

Frequency/duty cycle measurement

Non-contact voltage detection/live wire identification

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10. Button descriptions

Short press: Press the button for $\square$ 2s

Long press: Press the button for $\geq$ 2 s

1. :

1) DCV/ACV position: Short press to switch between DCV and ACV.

2) Continuity/resistance/diode: Short press to switch between continuity, resistance, and diode.

3) Frequency/duty cycle: Short press to switch between frequency and duty cycle.

4) NCV/LVE: Short press to switch between NCV and LIVE.

5) Press and hold to turn the flashlight on/off. The flashlight will automatically turn off after being on for about 5 minutes.

6) After holding the " " button in the off state, the buzzer will emit five beeps, and the "APO" symbol will disappear, after which the meter will enter a mode where it cannot be put to sleep.

7) The SEL button is disabled in HOLD function.

2. :

1) Short press to enter/exit data hold mode. The " " symbol will appear on the LCD display in

HOLD function.

2) Press and hold to turn the backlight on/off. The backlight will automatically turn off after 5 minutes from being turned on.

3) The HOLD button is disabled in NCV/LIVE position.

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Before use, check the built-in battery (1 × AAA 1.5 V). If the battery level is low when the meter is turned on, the " " symbol will be displayed on the LCD. To ensure measurement accuracy, the battery should be replaced in time. The warning symbol " " on the terminal indicates that the measured voltage must not exceed a specified value.

Before measuring, press the probe cap and rotate it inward counterclockwise to expose the V-end probe, as shown in Figure 2. (Rating 1: CAT III 600 V; Rating 2: CAT II 600 V)

After measuring, rotate the probe cap outward clockwise until the probe is completely covered by the cap.

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Rating 1 Rating 2

Figure 2

11.1 Measuring DC/AC Voltage (Figure 3)

- 1) Set the rotary switch to the DC/AC voltage measurement position.
- 2) The measurement position is by default the DC voltage position. To measure AC voltage, briefly press the "SEL" button to switch to the AC voltage position.
- 3) Connect the black test lead to the COM terminal and touch both ends of the measured voltage (connected in parallel to the load).
- 4) Read the measured voltage from the LCD display.

Figure 3

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Warning:

* To avoid electric shock, special attention must be paid to the safety of high voltage measurements.

- * Do not measure input voltage above the range, as this may cause damage to the meter or bodily injury.
- * Before measuring dangerous voltage, measure a known voltage to ensure that the meter is functioning normally.
- * If the measured voltage (DC/AC) is ≥ 30 V, a high voltage alarm symbol will appear on the LCD display. If the measured voltage (DC/AC) is ≥ 600 V, the backlight will turn red.
- * After completing all measurement activities, disconnect the test lead from the measured circuit.

11.2 Measuring Continuity, Resistance, and Diode (Figure 4)

- 1) Set the rotary switch to the continuity/resistance/diode measurement position.
- 2) The default measurement position is the automatic identification mode (in which the meter can automatically identify continuity, resistance, and diode measurements). After briefly pressing the "SEL" button, the meter will sequentially switch to continuity, resistance, and diode measurement positions.
- 3) Connect the black test lead to the COM terminal and touch the test lead appropriately to both ends of the measured object (connected in parallel to the measured object).
- 4) Read the measured resistance or approximate forward voltage of the PN junction of the measured diode from the LCD display. The normal forward voltage of a silicon PN junction is about 0.5 ~ 0.8 V.

Figure 4

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Warning:

- * Before measuring continuity, resistance, or diode, all power sources of the measured circuit must be turned off, and all capacitors must be fully discharged to avoid damage to the meter or bodily injury.
- * In automatic identification mode, the meter can automatically identify continuity, resistance, and diode and enter the appropriate measurement functions.
- * If the resistance of the shorted test lead is $\geq 0.5\Omega$, check if the test lead is loose or if there are other issues.
- * The buzzer will emit a long beep if the resistance between both ends of the measured object is $\leq 10\Omega$.
- * "OL" will appear on the LCD display if the measured resistor is open or the measured resistance exceeds the maximum range.

- * For low resistance measurements, an error of $0.1\Omega \sim 0.2\Omega$ will be generated by the test lead. To obtain an accurate result, subtract the resistance of the shorted test lead from the displayed resistance.
- * For high resistance measurements, stabilizing the reading takes a few seconds.
- * For diode measurement, connect the red test lead to the positive terminal of the measured diode and the black to the negative. If the measured diode is open or the polarity is reversed, "OL" will appear on the LCD display.
- * Do not apply voltage above 30 V (DC/AC) to avoid bodily injury.
- * After completing all measurement activities, disconnect the test lead from the measured circuit.

11.3 Measuring Capacitance (Figure 5)

- 1) Set the rotary switch to the capacitance measurement position.
- 2) Connect the black test lead to the COM terminal and touch both ends of the measured capacitor appropriately (connected in parallel to the measured object).
- 3) Read the measured capacitance from the LCD display.

Figure 5

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Warning:

- * Before measuring, fully discharge the capacitor (especially in the case of high voltage capacitors) to avoid damage to the product or personal injury.
- * When there is no input signal, the meter may display a constant reading, which is the internal compensating capacitance of the meter. When measuring small capacitance, subtract the internal capacitance from the measured value to ensure measurement accuracy.
- * For measuring large capacitance, stabilizing the reading takes a few seconds.
- * "OL" will appear on the LCD display if the measured capacitor is shorted or the measured capacitance exceeds the maximum range.
- * After completing all measurement activities, disconnect the test lead from the measured circuit.

11.4 Frequency/Duty Cycle Measurement (Figure 6)

- 1) Set the rotary switch to the frequency/duty cycle measurement position.
- 2) The measurement position is by default the frequency position. To measure the duty

cycle, briefly press the “SEL” button to switch to the duty cycle position.

3) Connect the black test lead to the COM terminal and touch the test lead to both ends of the measured object (connected to the measured object in parallel).

4) Read the measured frequency or duty cycle from the LCD display.

Figure 6

Warning:

- * Do not measure input voltage beyond the range; otherwise, a correct reading cannot be obtained, which may cause damage to the product or personal injury.
- * Do not apply voltage above 600 V; otherwise, the protection provided by the meter may be compromised.
- * Before measuring dangerous voltage, measure a known voltage to ensure that the meter is functioning normally.
- * After completing all measurement activities, disconnect the test lead from the measured circuit.

11.5 Non-Contact AC Voltage Detection (NCV)/Live Wire Identification

Steps for non-contact AC voltage detection (Figure 7):

- 1) Set the rotary switch to the NCV/LIVE position.
- 2) The measurement position is by default the NCV position. When the meter switches to the NCV position, “EF” will appear on the LCD display, and the red backlight will blink twice to check the normality of the backlight.
- 3) Bring the red test probe (V-type tip) close to the measured wire or socket. If AC voltage is detected, “EF” will appear on the LCD display, the red backlight will start to blink, and a beeping sound will be heard simultaneously.

Operational steps for live wire identification (Figure 8):

- 1) Set the rotary switch to the NCV/LIVE position.
- 2) The measurement position is by default the NCV position. Press the “SEL” button to switch to the LIVE position. When the meter switches to the LIVE position, “----” will appear on the LCD display, and the backlight will blink twice to check the normality of the backlight.
- 3) Ensure that the red test probe (V tip) touches the measured wire or socket. If the probe touches a live wire, the LCD display will show “LIVE,” the red backlight will blink, and the buzzer will turn on simultaneously.

Live Wire

Figure 7 Figure 8

Warning:

* In NCV detection, the meter determines whether voltage is present on the measured wire solely through the spatial electromagnetic field; therefore, the detected voltage serves only as a reference. Even if the displayed detection result indicates no voltage, it does not mean that voltage is definitely absent. The design and thickness/type of insulation of the measured wire or socket may vary, which can affect the detection result; therefore, do not determine the presence of voltage on an insulated/shielded wire solely based on the detection result.

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* During NCV detection, hold the meter's casing with your hand.

* If the measured voltage is ≥ 100 V AC, check whether the measured wire is insulated to avoid personal injury.

* To avoid interference from the COM terminal's electric field when identifying a live wire, disconnect the black test lead from the COM terminal for live wire identification.

* In conditions of intense high voltage, the accuracy of live wire identification may be unstable.

12. Other Functions

1) Automatic Shutdown

In the ON state, if the rotary switch is not turned or no functional button is pressed for about 15 minutes, the meter will automatically turn off to save energy. In the automatic shutdown state, briefly press any functional button to automatically wake up the meter, or set the rotary switch to the OFF position and then restart the meter. To disable the automatic shutdown function, press and hold the SEL button to turn on the meter (the "APO" symbol on the LCD display will disappear, and the buzzer will emit 5 beeps). To enable the automatic shutdown function, restart the meter.

2) High Voltage Alarm

In the DCV/ACV position, if the measured voltage (DC/AC) is ≥ 30 V, the high voltage alarm symbol will appear on the LCD display; if ≥ 600 V, the backlight will turn red.

3) Low Voltage Detection

If the battery voltage is lower than about 1.2 V, the low battery level symbol " " will appear on the LCD display.

4) Forced Shutdown

If the battery voltage is lower than about 0.9 V, the meter will perform a forced shutdown.

5) Buzzer

After pressing any functional button or turning the rotary switch, the buzzer will emit a short beep once to indicate that the operation is enabled; or twice to indicate that it is disabled.

13. Technical Specifications

Accuracy: $\pm (a\% \text{ of reading} + b \text{ digits})$; one-year warranty

Ambient Temperature: $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ ($73.4^{\circ}\text{F} \pm 9^{\circ}\text{F}$)

Relative Humidity: $\leq 75\text{RH}$

Warning:

The accuracy of temperature measurement is $18^{\circ}\text{C} \sim 28^{\circ}\text{C}$. The range of ambient temperature fluctuations is within $\pm 1^{\circ}\text{C}$. If the temperature is $< 18^{\circ}\text{C}$ or $> 28^{\circ}\text{C}$, the additional temperature coefficient error is $0.1 \times (\text{specified accuracy})/^{\circ}\text{C}$.

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13.1 DC Voltage

Range Resolution Accuracy

6.000V 0.001V

60.00V 0.01V $\pm(1.0\%+3)$

600.0V 0.1V

* Input impedance: Approximately $10\text{M}\Omega$

* Range ensuring accuracy: 5%~100% of the range

* Residual reading in short-circuit conditions: ≤ 2 counts

* If the measurement value is $\geq 620.0\text{ V}$, the message "OL" is displayed.

* Overload protection: 600Vrms (DC/AC)

13.2 AC Voltage

Range Resolution Accuracy

6.000V 0.001V

60.00V 0.01V $\pm(1.0\%+4)$

600.0V 0.1V

* Display: TRMS

* Input impedance: Approximately $10\text{M}\Omega$

* Frequency range: 45Hz~400Hz

* Range ensuring accuracy: 10%~100% of the range

- * Residual reading in short-circuit conditions: ≤ 5 counts
- * If the measurement value is ≥ 620.0 V, the message "OL" is displayed.
- * Overload protection: 600Vrms (DC/AC)
- * The AC peak factor reaches 2.5 at 4000 counts and linearly decreases to about 1.8 at 6000 counts.

For non-sinusoidal waves: Add 3% for peak factors 1~2; add 5% for peak factors 2~2.5

13.3 Continuity

Range Resolution Accuracy

The buzzer is silent if the measured circuit is $\geq 50\Omega$.

600.0 Ω 0.1 Ω The buzzer emits a continuous sound if the measured circuit is $\leq 10\Omega$.

- * If the measurement value is $\geq 62.0\Omega$, the message "OL" is displayed.
- * Overload protection: 600Vrms (DC/AC)

13.4 Resistance

Range Resolution Accuracy

600.0 Ω 0.1 Ω

6.000k Ω 0.001k Ω

60.00k Ω 0.01k Ω $\pm(1.0\%+3)$

600.0k Ω 0.1k Ω

6.000M Ω 0.001M Ω $\pm(1.5\%+5)$

60.00M Ω 0.01M Ω $\pm(2.5\%+5)$

- * Range: Measured value = Displayed value - Shorted test lead value
- * Range ensuring accuracy: 5%~100% of the range
- * In automatic identification mode: These ranges include 600.0 Ω , 6.000k Ω , 60.00k Ω , 600.0k Ω , and 6.000M Ω .
- * In manual selection mode: These ranges include 600.0 Ω , 6.000k Ω , 60.00k Ω , 600.0k Ω , 6.000M Ω , and 60.00M Ω .
- * Overload protection: 600Vrms (DC/AC)

13.5 Diode

Range Resolution Accuracy

6.000V 0.001V $\pm(0.5\%+10)$

- * Open circuit voltage: Approximately 3V
- * If the measurement value is > 3.000 V, the message "OL" is displayed.

* Overload protection: 600Vrms (DC/AC)

13.6 Capacitance

Range Resolution Accuracy

600.0nF 0.1nF

6.000uF 0.001uF

$\pm(3.5\%+8)$

60.00uF 0.01uF

600.0uF 0.1uF

6.000mF 0.001mF $\pm(5.0\%+9)$

60.00mF 0.01mF $\pm(10.0\%+9)$

* Measured value = displayed value - residual reading. (Residual reading in open circuit: ≤ 5 counts)

* If the measurement value is ≥ 62.00 mF, the message "OL" is displayed.

* Range ensuring accuracy: 10%~100% of range

* Overload protection: 600Vrms (DC/AC)

13.7 Frequency

Range Resolution Accuracy

99.99 Hz 0.01 Hz

999.9 kHz 0.1 Hz

9.999 kHz 0.001 KHz $\pm(0.1\%+5)$

99.99 kHz 0.01 KHz

999.9 KHz 0.1 KHz

* Measurement range: 10 Hz~1M Hz

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* Zero-cross waveform

* $\leq 100\text{kHz}$: $250\text{mVrms} \leq \text{Input amplitude} \leq 20\text{Vrms}$

$>100\text{kHz} \sim 1\text{MHz}$: $600\text{mVrms} \leq \text{Input amplitude} \leq 20\text{Vrms}$

$>1\text{MHz}$: Accuracy is not guaranteed

* Overload protection: 600Vrms (DC/AC)

13.8 Duty Cycle

Range Resolution Accuracy

0.1%~99.9% 0.1% $\pm$ 15 counts

- * Range ensuring accuracy: 10%~90% of range
- * Frequency range: 10Hz~10kHz
- * Input amplitude: 250mVrms $\leq$ Input amplitude $\leq$ 20Vrms
- * Zero-cross waveform
- * Overload protection: 600Vrms (DC/AC)

13.9 NCV/LIVE

Range

NCV 45~600V

LIVE >100 V (mains voltage)

- * Frequency range: 50Hz~60Hz
- * Overload protection: 600Vrms (DC/AC)

14. Maintenance

Warning: Before opening the rear cover or battery cover, power off the device and disconnect the test lead from the input terminal and the circuit being measured.

1. General maintenance

- Wipe the meter casing with a damp cloth and mild detergent. Do not use abrasive materials or solvents.
- If any problems are found with the meter, stop using it and send it for service.
- Calibration and maintenance must be performed by qualified repair personnel or designated service department.

2. Installing or replacing the battery (Figure 9)

Battery specification: 1.5V/AAA battery

When the low battery symbol appears on the LCD display, replace the battery immediately, otherwise it will affect measurement accuracy.

Install or replace the battery according to the following steps:

- Turn off the meter and disconnect the test lead from the input terminal.
- While holding the front of the meter facing down, loosen the screw on the battery cover, remove the battery cover, take out the old battery, and install a new battery according to the correct orientation.

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polarization. c. Reattach the battery cover and tighten the screw. Figure 9

The content of the user manual is subject to change without notice. UNI-T

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This document is a translation of the original user manual created by the manufacturer.

Detailed information about the distributor/manufacturer warranty conditions is available on the website <https://serwis.innpro.pl/gwarancja>

The product must be regularly maintained (cleaned) at the user's expense or by specialized service points. In the absence of information about necessary periodic or service maintenance actions in the user manual, the physical condition of the product should be assessed regularly, at least once a week, for deviations from that of a physically new product. If any deviation is detected or identified, urgent maintenance (cleaning) or service steps must be taken. Failure to properly maintain (clean) and respond upon detecting a deviation may lead to permanent damage to the product. The warranty does not cover damages resulting from neglect. Warnings and Safety Information

All information regarding operation and use can be found in the user manual or on the product label. Before using the products, familiarize yourself with its content and follow the instructions contained therein. Also, review the following information before use:

User Safety

Use measuring tools according to their intended purpose. Do not use measuring tools for tasks they were not designed for, to avoid damage or incorrect measurement results. Always ensure that the tool is in good technical condition before use. Damaged tools, such as cracked housings or broken displays, may lead to incorrect measurements or risk of accidents. Regularly calibrate measuring tools to ensure their accuracy and reliability of measurements. Incorrectly calibrated devices may lead to erroneous results. Precautions Use appropriate eye protection, especially when working with measuring tools that may emit radiation. Keep measuring tools away from children and untrained individuals to prevent accidental damage or misuse. Avoid using measuring tools in extreme temperature, humidity, or high dust concentration conditions that may affect their accuracy and functionality. When working with measuring tools, exercise caution to avoid damaging delicate measuring components (e.g., sensors, probes). Safe Use

Always ensure that the measuring tool is properly set up and secured to avoid measurement errors or damage. Use measuring tools only in designated areas that provide adequate

stability and minimize the risk of accidents, such as slippery or uneven surfaces. Never take measurements on live components or in conditions that may pose a safety hazard.

Guidelines for Use in Appropriate Conditions

Store measuring tools in a dry, cool place, away from moisture and direct sunlight, which may damage the devices or affect their accuracy. When using measuring tools, ensure they are well seated and not exposed to shocks or impacts that may lead to damage. Avoid using measuring tools in areas with extreme conditions, such as heavy vibrations, hot surfaces, dust, or moisture, unless the tool is designed for such conditions by the manufacturer.

Maintenance Instructions

Regularly check the condition of measuring tools, especially measuring components (e.g., sensors, probes, displays) and batteries. Follow the cleaning instructions provided by the manufacturer. Use appropriate cleaning materials (e.g., soft cloths) to avoid damaging delicate components. Regularly perform calibration of measuring tools according to the manufacturer's recommendations to maintain measurement accuracy.

Safe Disposal
Used or damaged measuring tools should be disposed of in accordance with applicable environmental protection and electronic recycling regulations. Do not throw measuring tools into regular waste containers, as they may contain environmentally harmful components. Contact local authorities or recycling companies for information on proper disposal of used measuring tools.

Declaration of Conformity

The products have been designed in accordance with the safety requirements specified in Regulation (EU) 2023/988 on general product safety, ensuring their compliance with applicable standards regarding the safety and health protection of users.

Environmental Protection

Used electronic equipment marked in accordance with the European Union directive must not be disposed of together with other municipal waste. It is subject to selective collection and recycling at designated points. By ensuring its proper disposal, you prevent potential negative consequences for the natural environment and human health. The system for collecting used equipment complies with locally applicable environmental protection regulations regarding waste disposal. Detailed information on this matter can be obtained from the municipal office, waste management facility, or the store where the product was purchased. The product meets the requirements of the so-called New Approach directives of the European Union (EU) concerning issues related to user safety, health protection, and environmental protection, identifying hazards that should be detected and eliminated.

Importer:

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Representative in the EU:

UNI-TREND TECHNOLOGY EU GMBH

Affinger Strasse 12

86167 Augsburg, Germany

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Product Battery Specifications

Feature Value

Battery Category General-purpose portable battery

Battery Type Alkaline battery LR

Contains Cadmium/Lead (>0.002% Cd, Not >0.004% Pb)

Net Weight (kg) 0.009

Capacity (mAh) 1300