

UT383

Mini Light Meters

Operating Instruction

1. Introduction

UT383 is a stable, safe, reliable mini digital light meter, widely used in lightening enterprises, agriculture and animal husbandry, mining enterprises, laboratory, office, household, street lights construction and others.

This operating manual includes relevant safety information and warnings. Please read this manual carefully and observe all the cautions strictly.

⚠ Warning:

Before using the product, please read the operation safety rules carefully.

2. Out of the Box

Open the packing box and take out the meter. Please check carefully if any items are missing or damaged.

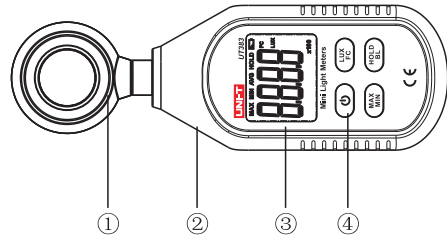
1. Main Unit-----1
2. Operating manual ----- 1

3. Operation Safety

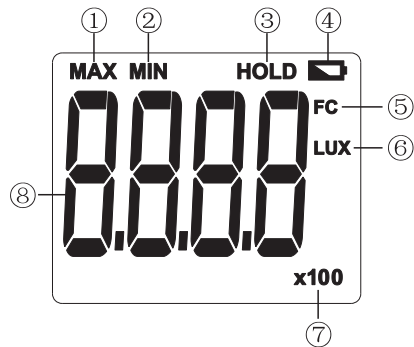
1. Please check the meter and the accessories before using and beware of any damage or abnormal phenomenon. If you find the case is damaged or the LCD shows nothing, or you consider that the meter could not work properly anymore, please stop using it.
2. Observe the operating instructions while measuring.
3. Do not open the meter at will or change internal wiring to avoid damages to the meter.
4. When the LCD displays "🔋", replace the battery timely. Remove the battery if the meter is not used for a long time.
5. Do not store or use the meter in high temperature, high humidity, flammable, combustible, or strong electromagnetic environment.
6. Please use soft cloth and neutral detergent to clean the case for maintenance. Do not use grinding agent and solvent to avoid case corrosion and damaging the meter.

4. Product Outlook

1. Illumination transducer
2. Meter case
3. LCD display
4. Function keys



5. Display Interface



1	Maximum measurement	5	Foot candle
2	Minimum measurement	6	Lux
3	Data hold	7	Value*10 or value*100
4	Low battery	8	Illumination value

6. Key Function and Setup

1. ON/OFF:

Short press once to start up; short press again to power off.

Note: Product's auto power off feature can be disabled: Press and hold "HOLD" and then press "ON/OFF" key to enable/disable auto power off, LCD will display "APO OFF" to indicate status.
2. LUX/FC:

Unit conversion key: Short press this key to select Lux or Foot candles.
3. MAX/MIN:

Pressing this key can select maximum, minimum or normal value measurement; select maximum and the meter will always show the maximum reading; select minimum and the meter will always show the minimum reading.
4. HOLD/BL:

HOLD: Short press this key to hold measurement; short press this key again to exit data hold and continue normal measurement.

BL: Long press this key to turn on backlight; long press this key again to turn off backlight.

7. Technical Specifications

1. Illumination

Function	Range	Resolution	Accuracy	Description
Illumination	0~9999 Lux	1 Lux	$\pm(4\%rdg + 8dgt)$	(regulate in the standard of 2856K color temperature flat lamp) Note: 1FC=10.76 Lux
	≥ 10000 Lux	10 Lux	$\pm(5\%rdg + 10dgt)$	
Range	0~199,999 Lux			Auto-ranging
Sampling Time			0.5s	Refresh sampling in 0.5s
Overload Indication			OL	Shows "OL"
MAX/MIN Measurement			MAX/MIN	Shows "MAX/MIN"
Data Hold			HOLD	Shows "HOLD"
Backlight			BL	Manually on and off
Auto Power Off			5mins	Automatically power off after 5mins without operation
Low Battery			3.0~3.5V	Shows low battery prompt when power is 3.0~3.5V

2. General Type

- LCD: 4 digits LCD display. The max display is 9999
- Overload indication: When illumination is over 199,999 Lux, "OL" will be displayed
- Battery low power display: Prompt "▣". New battery should be replaced in time
- Sampling rate: 2/s
- Sensor type: Silicon photocell
- Impact strength: Can withstand the impact of landing from 1 meter height
- Battery requirement: 1.5V batteries (AAA) ×3
- Product size: 160×50×28mm
- Weight: 118g

3. Environment Specification

- Indoor use
- Altitude height: 2000m
- Safety: EN61326-1
- Pollution level: 2
- Working temperature and humidity:
0°C~40°C (not greater than 80%RH)
40°C~50°C (not greater than 45%RH)
- Storage temperature and humidity:
-20°C~60°C (not greater than 75%RH)

4. Electrical Specifications

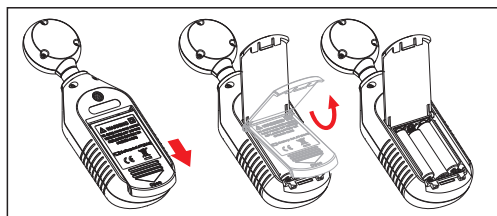
- Accuracy: 0~9999Lux, $\pm(4\%rdg + 8dgt)$
 ≥ 10000 Lux, $\pm(5\%rdg + 8dgt)$
- Environment temperature: 23°C±3°C
- Environment humidity: ≤80%RH

5. General Maintenance

- ⚠ Warning:** please do not open the case of meter to avoid affecting device accuracy or damage to the meter.
- Maintenance and service of the meter should be accomplished by professional personnel or designated maintenance department.
 - Clean the case by dry cloth periodically, detergent with abrasive or solvent composition shall not be used.

6. Battery Installation and Replacement

- The meter uses 3 pieces of AAA 1.5V batteries. Please see figure below for steps of battery installation and replacement.



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Safety warnings and information

All information regarding operation and use can be found in the operating instructions or on the product label. Read these instructions carefully before using the products and follow the instructions contained therein.

Please also read the following information before use:

Safety precautions

1. Use measuring tools for their intended purpose. Do not use measuring tools for tasks for which they are not designed to avoid damage or incorrect measurement results.
2. Always ensure that the tool is in good working order before use. Damaged tools, such as cracked housings or damaged displays, can lead to incorrect measurements or the risk of accidents.
3. Calibrate measuring tools regularly to ensure their accuracy and reliability. Incorrectly calibrated devices can lead to incorrect results.

Precautions

1. Use appropriate eye protection, especially when working with measuring tools that may emit radiation.
2. Keep measuring tools away from children and untrained persons to prevent accidental damage or misuse.
3. Avoid using measuring tools in extreme temperature or humidity conditions or in atmospheres with high dust concentrations, which may affect their accuracy and functionality.
4. When working with measuring tools, take care not to damage delicate measuring elements (e.g. sensors, probes).

Safe use

1. Always ensure that the measuring tool is properly positioned and secured to avoid measurement errors or damage.
2. Use measuring tools only in designated areas that provide adequate stability and minimise the risk of accidents, such as slippery or uneven surfaces.
3. Never take measurements on live components or in conditions that may pose a safety hazard.

Rules for use in appropriate conditions

1. Store measuring tools in a dry, cool place, away from moisture and direct sunlight, which may damage the devices or affect their accuracy.
2. When using measuring tools, make sure they are securely positioned and will not be exposed to shocks or impacts that could damage them.
3. Avoid using measuring tools in extreme conditions, such as high vibrations, hot surfaces, dust or moisture, unless the tool is designed for such use by the manufacturer.

Maintenance instructions

1. Regularly check the condition of measuring tools, especially measuring elements (e.g. sensors, probes, displays) and batteries.
2. Follow the cleaning instructions provided by the manufacturer. Use appropriate cleaning materials (e.g. soft cloths) to avoid damaging delicate components.
3. Calibrate measuring tools regularly in accordance with the manufacturer's recommendations to maintain measurement accuracy.

Safe disposal

1. Dispose of used or damaged measuring tools in accordance with applicable environmental and electronic recycling regulations.
2. Do not dispose of measuring tools in normal waste bins, as they may contain components that are harmful to the environment.
3. Contact your local authorities or recycling companies for information on the proper disposal of used measuring tools.

Declaration of conformity

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

EU representative

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