

UT383S

Digital Light Meter User Manual

1. Introduction

UT383S is a stable, safe, reliable mini digital light meter, widely used in lighting applications, agriculture and animal husbandry, mining enterprises, laboratory, office, household, street lights construction and others.

Features:

- Precise optical sensor
- User friendly operation: split design with extendable cable
- Clear reading: LCD screen

This user manual includes safety information and warnings. Please read this manual carefully and understand all warnings.

⚠ Warning:

Before using the product, please read operation safety carefully.

2. Packaging list

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

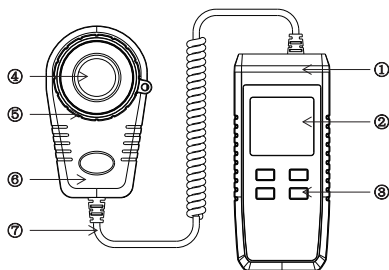
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3. Operation safety

- Please check the meter and accessories for any damage or anomaly before using. Do not use the meter if the case is apparently damaged, LCD does not work or it is not working properly in any way.
- Follow operation instruction while measuring.
- Do not open the meter and change internal wiring to avoid damage.
- Replace the battery when  appears on screen. Remove the battery if the meter is not used for a long time.
- Do not store or use the meter in high temperature, high humidity, flammable, explosive or strong electromagnetic environment.
- Use soft cloth and neutral detergent to clean the case. Do not use abrasant or solvent.

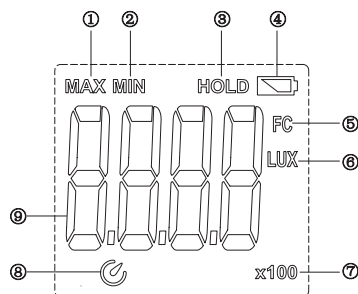
4. Structure

1. Host
2. LCD screen
3. Buttons
4. Illumination sensor
5. Sensor protection cover
6. Measuring probe
7. Extendable cable



5. Symbol

1. Max reading
2. Min reading
3. Data hold
4. Low power
5. FC(Foot candle)
6. LUX
7. Reading*10 or reading*100
8. Auto power off
9. Reading



6. Buttons

(1) : Power ON/OFF

Under OFF status: Long press 1s to turn on the device.

Under ON status: Long press 1s to enable or disable auto power off function.

Short press to turn off the device.

(2) LUX/FC: Unit switch

During measurement, short press to switch the unit.

(3) MODE: MAX/MIN reading selection

Short press to switch between MAX/MIN values.

(4) HOLD/BL: Data hold/backlight

Short press to enable or disable data hold function.

Long press to turn ON/OFF backlight.

7. Technical specification

Range	Resolution	Accuracy	Note
0~199,900Lux	0~9999Lux	1Lux	± (4%rdg+8dgt)
	≥10,000Lux	10Lux	± (5%rdg+10dgt)
	≥100,000Lux	100Lux	± (5%rdg+10dgt)
	0~999.9Fc	0.1Fc	1Fc=10.76Lux
	≥1000Fc	1Fc	
	≥10,000Fc	10Fc	

A. General specification

- Display: 4 digit LCD screen. Max display: 9999
- Overload indication: When illumination is over 199900Lux, OL will be displayed.
- MAX/MIN reading display
- Data hold
- Backlight
- Auto power off: Automatic power off without operation for 5 minutes
- Sampling rate: 0.5s
- Drop test: 1m
- Battery: 3*1.5V(AAA)

B. Environment limitation

- Indoor use
- Max altitude: 2000
- Pollution grade: 2
- Operating environment: 0°C~40°C (≤80%RH)
- Storage environment: -20°C~60°C (≤75%RH)

C. Electrical specification

- Accuracy: 0~9999Lux, ± (4%rdg+8dgt)
≥10000Lux, ± (5%rdg+10dgt)
- Ambient temperature: 23°C±3°C
- Ambient humidity: ≤80%RH

8. Maintenance

1. General

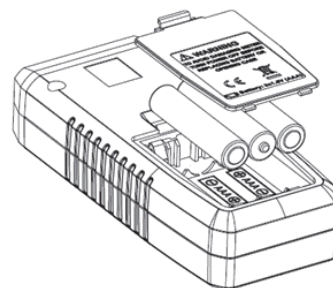
⚠ Warning: Please do not open the case, or it may influence the accuracy and damage the device.

- Clean the case with a damp cloth and detergent. Do not use abrasants or solvents
- The maintenance and service must be implemented by qualified professionals or designated departments.

2. Battery replacement

To avoid false reading, replace the battery when the battery indicator  appears.

Battery type: 3* 1.5V AAA



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Warnings and safety information

For all information on handling and use, please refer to the instruction manual or product label. Before using the products, read its contents and follow the instructions contained therein.

Also read the following information before use:

Safety of use

1. Use measuring tools for their intended purpose. Do not use measuring tools for tasks for which they were not designed to avoid damage or erroneous measurement results.
2. Always make sure a tool is in good working condition before using it. Damaged tools, such as cracked cases or damaged displays, can lead to incorrect measurements or risk of accidents.
3. Calibrate measuring tools regularly to ensure accuracy and reliability of measurements. Incorrectly calibrated devices can lead to erroneous 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 people to prevent accidental damage or misuse.
3. Avoid using measuring tools in extreme conditions of temperature, humidity or in an atmosphere with a high concentration of dust, which can affect their accuracy and functionality.
4. Be careful not to damage delicate measuring components (e.g., sensors, probes) when working with measuring tools.

Safe use

1. Always make sure that the measuring tool is properly aligned and fixed to avoid measurement errors or damage.
2. Use measuring tools only in designated areas that provide adequate stability and minimize 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 can damage the devices or affect their accuracy.
2. When using measuring tools, make sure they are well seated and will not be subjected to shocks or impacts that can damage them.
3. Avoid using measuring tools in areas with extreme conditions, such as high vibration, hot surfaces, dust, or moisture, unless the tool is rated for this by the manufacturer.

Maintenance instructions

1. Regularly check the condition of measuring tools, especially measuring components (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, according to the manufacturer's recommendations, to maintain measurement accuracy.

Safe disposal

1. Dispose of used or damaged measuring tools in accordance with current environmental and electronics recycling regulations.
2. Do not dispose of measuring tools in regular waste containers, as they may contain elements harmful to the environment.
3. Contact local authorities or recycling companies for information on proper disposal of used measuring tools.

Statement of compliance

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

EU REP
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