



www.prexiso-eu.com

PREXISO

- | | |
|-----------------------|----------------------|
| EN USER MANUAL | NL HANDLEIDING |
| DE BENUTZERHANDBUCH | TR KULLANIM KILAVUZU |
| FR MANUEL UTILISATEUR | DK BRUGERMANUAL |
| IT MANUALE UTENTE | FI OHJEKIRJA |
| ES MANUAL DE USUARIO | NO BRUKERMANUAL |

2 YEARS LIMITED WARRANTY



Measuring Range
0.1 – 400,000 Lux



Unit Conversion
°C/°F



Temperature Range
-10°C – 45°C



DIGITAL LUX METER

PREXISO



Prexiso AG
CH-6300 Zug / Switzerland

www.prexiso-eu.com



The safety instructions and the user manual should be read through carefully before the product is used for the first time. The person responsible for the product must ensure that all users understand these directions and adhere to them.

SAFETY INSTRUCTION:

1. Keep the instrument dry.
2. Keep the instrument and battery out of reach of infants and children.
3. When the symbol "  " appears, the batteries are low and should be replaced. Ensure that battery polarity connections are correct when replacing batteries. If you are not using the instrument for a long time, remove the battery.

Ensure that battery polarity connections are correct when replacing batteries.

If you are not using the instrument for a long time, remove the battery.

PROHIBITED USE

- Using the product without instruction
- Using outside the stated limits
- Deactivation of safety systems and removal of explanatory and hazard labels
- Opening of the equipment by using tools (screwdrivers, etc.)
- Carrying out modification or conversion of the product
- Use of accessories from other manufacturers without express approval

CAUTION

Never attempt to repair the product yourself. In case of damage, contact a local dealer.

LIMITS OF USE

 Never attempt to repair the product yourself. In case of damage, contact a local dealer.

Refer to section "Technical data", the device is designed for using in areas which is habitable for humans.

Do not use the product in explosion hazardous areas or in aggressive environments.

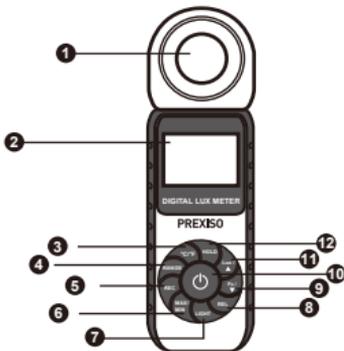
AREAS OF RESPONSIBILITY RESPONSIBILITIES OF THE PERSON IN CHARGE OF THE INSTRUMENT:

- To understand the safety instructions on the product and the instructions in the User Manual.
- To be familiar with local safety regulations relating to accident prevention.
- Always prevent access to the product by unauthorized personnel.

FUNCTION

The measuring instrument is used to measure illuminance in workplaces, offices, public buildings and in industry. The integrated photo diode determines the illuminance in lux and foot-candle. With the corresponding function, it is possible to carry out comparison and reference measurements as well as peak measurements for registering quick changes in light levels.

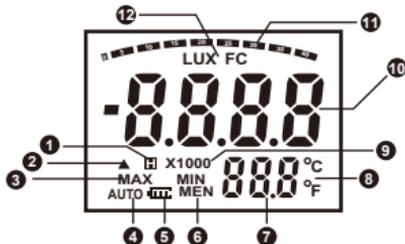
PRODUCT OVERVIEW



| Parts | Description |
|-------|--|
| 1 | Light sensor |
| 2 | LC display |
| 3 | °C/°F selection when detecting temperature |
| 4 | Range selecting |
| 5 | Data record |
| 6 | MAX/MIN function |
| 7 | Back Light Button Switch |
| 8 | Reference button |

| Parts | Description |
|-------|--|
| 9 | Select FC units. When reading data state, Press the look down keys. |
| 10 | Select Lux units. When reading data state, can use the look up button to select units. |
| 11 | ON/OFF switch |
| 12 | HOLD key: Press the "HOLD" key to lock display value, and the "H" sign will appear on the display, press it again to exit. |

DISPLAY

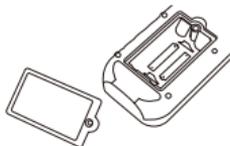


1. HOLD measured value
2. Relative measurement
3. MAX/MIN function
4. Automatic measuring range
5. Low battery charge
6. Value for memory
7. Temperature measuring value
8. Temperature units: Degree Celsius/Degree Fahrenheit
9. Measuring range
10. Light measured value
11. Analogue scale
12. Light units: Lux/Foot-candle

OPERATION INSTRUCTION

1. INSERT BATTERY

Open battery compartment with the screwdriver and insert batteries according to the installation symbols. Pay attention to the polarity while inserting the battery.



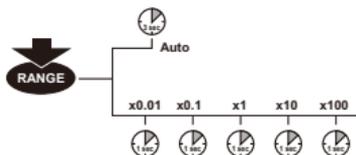
⚠ It is necessary to replace new batteries, when left corner of LCD display show "LO".

2. SWITCHING ON/OFF

PRESS  to turn on/off the device.

3. MEASURING RANGE SELECTING(AUTOMATIC/MANUAL)

MANUAL RANGE SWITCHING:



0-40Lux/0-40Fc



0-400Lux/0-400Fc



0-40,000Lux/0-40,000Fc



0-4,000Lux/0-4,000Fc



0-400,000Lux/0-400,000Fc

4. DATA RECORD AND READ



⚠ Over range: if the instrument only display one "OL" in the LCD, the input signal is too strong, and a higher range should be selected.

5. MAX/MIN

The MAX/MIN function is used to display the highest and lowest measured values during the measurement.



6. LIGHT

Press "LIGHT" button to switch on the backlight function while the environment is dark.

7. RELATIVELY MEASURING

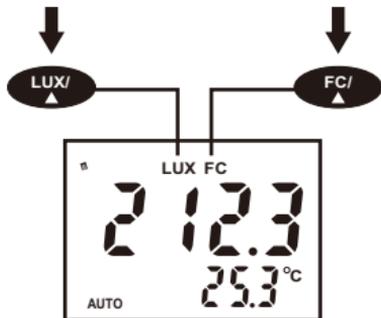
After turning on the device, press the "REL" button to activate the relative measurement. The last displayed value will be set to the reference value, which now shows the difference from the set reference value. Relative measurements can be made either within the automatic measurement range or within the manual measurement range. Press the "REL" button again to deactivate this feature.



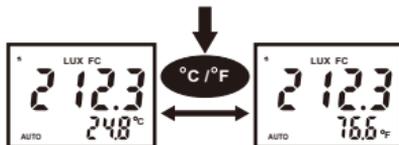
 Default range setting is AUTO with the device switched on.

8. UNITS OF MEASURE

a. Illuminance unit: The measured values can be displayed in Lux and FC (foot-candles) by pressing "LUX/△" and "Fc/▽", respectively.



b. Temperature unit: Switch the device to °C or °F mode, and read the ambient temperature value on the LCD.



9. DATA HOLD FUNCTION

Press the "HOLD" key to lock display value, and the "H" sign will appear on the display, press it again to exit.



BATTERY CHECK-UP & REPLACEMENT:

1. After turning off the meter, press the battery cover and push in the direction of the arrow to open.
2. Disconnect the batteries from the instrument and replace it with a standard 9-volt transistor battery and go for the cover.

MAINTENANCE:

1. The white plastic disc on the top of the detector should be cleaned with a damp cloth when necessary.
2. Do not store the instrument where temperature or humidity is excessively high.
3. The reference level, as marker on the face plate, is the tip of the photo detector globe.
4. The calibration interval for the photo detector will vary according to operational conditions, but generally the sensitivity decreases in direct proportion to the product of luminous intensity by the operational time. In order to maintain the basic accuracy of the instrument, periodic calibration is recommended.

Reference values for illuminance in indoor spaces

| | Practical places | Luminous intensity |
|----------|-------------------------------------|--------------------|
| OFFICE | Conference, reception room | 200 – 750Lux |
| | Clerical work | 700 – 1,500Lux |
| | Typing drafting | 1,000 – 2,000Lux |
| FACTORY | Packing work, entrance passage | 150 – 300Lux |
| | Visual work at production line | 300 – 750Lux |
| | Inspection work | 750 – 1,500Lux |
| | Electronic parts assembly line | 1,500 – 3,000Lux |
| HOTEL | Public room, cloakroom | 100 – 200Lux |
| | Reception, cashier | 220 – 1,000Lux |
| STORE | Indoors stairs corridor | 150 – 200Lux |
| | Show window, packing table | 750 – 1,500Lux |
| | Forefront of show window | 1,500 – 3,000Lux |
| HOSPITAL | Sickroom, warehouse | 100 – 200Lux |
| | Medical examination room | 300 – 750Lux |
| | Operation room, emergency treatment | 750 – 1,500Lux |
| SCHOOL | Auditorium, indoor gymnasium | 100 – 300Lux |
| | Class room | 200 – 750Lux |
| | Laboratory, library, drafting room | 500 – 1,500Lux |

| Technical specification | |
|--------------------------------|---|
| Measuring range | 40.0 lux; 400.0 lux; 4,000 lux; 40,000 lux; 400,000 lux |
| Accuracy | ≤10,000Lux: ±4% rdg ±0.5% f.s ≥10,000Lux: ±5% +10digits (Calibrated to standard incandescent lamp at color temperature 2856K) |
| Sensor | ne silicon photo diode with filter |
| Power supply | 2 × AAA 1.5V |
| Sampling rate | 2 times/s |
| Operating temperature-humidity | -0°C to 40°C(32°F-104°F) 0 – 70%Rh |
| Storage temperature-humidity | -10°C to 50°C(14°F-122°F) 0 – 80%Rh |
| Dimensions | 174×51×32mm |
| Weight | 188g |

DISPOSAL



The batteries must not be disposed with household waste. Care for the environment and take them to the collection points provided in accordance with national or local regulations. The product must not be disposed with household waste. Dispose of the product appropriately in accordance with the national regulations in force in your country. Adhere to the national and country specific regulations. Product specific treatment and waste management can be downloaded from our homepage.

WARRANTY

The Instrument PXX-400 has a two-year warranty. For further information on this, contact your dealer. This warranty is void if product is used for commercial purposes. This warranty is not transferable and does not cover products damaged by misuse, neglect, accident, alterations or use and maintenance other than that specified in the owner's manual. This warranty does not apply to any expendable parts that can wear from normal use. This warranty excludes any accessories.

www.prexiso-eu.com

