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Standard: Q/GMY 010-2018  
Version: 1030-EN-0



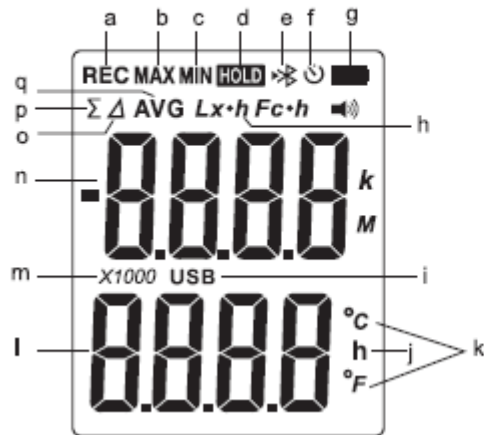
MODEL : GM1030(Bluetooth type)

## Split Type Lux Meter Instruction Manual




Please scan the QR code to download Lux-Meter App from Google Play .  
Attention: Lux-Meter App only supports Android 5.0 version or above.

#### 4. LCD display



- |   |   |
|---|---|
| a. Data recording                                 | j. Hour                                     |
| b. Max value/auto storage                         | k. Temperature unit                         |
| c. Min value/manual storage                       | l. Temperature value and measurement values |
| d. Data holding                                   | m. Illumination value gear                  |
| e. Bluetooth (Bluetooth version only)             | n. Illumination value and parameter setting |
| f. Power off timing icon                          | o. Difference icon                          |
| g. Low battery indicator                          | p. Integral value symbol                    |
| h. Illumination unit—symbol of lux                | q. Average value symbol                     |
| i. USB connection symbol (Bluetooth version only) |   |

Note: When the indicator  flashes, please change batteries, or the measurement value may not be accurate and Bluetooth communication be abnormal.

#### 5. Function description

There are two working modes of illuminometer, normal mode and setting mode. Each working mode has multiple interfaces:

##### (1) Normal mode

1. Real-time interface: display current measured value of illumination and temperature.
2. Max value interface: record from startup, display maximum value of illumination and temperature.
3. Min value interface: record from startup, display minimum value of illumination and temperature.
4. Difference value interface: display the difference value between the latest measured value of illumination and enter the saved value when first entering the interface.
5. Holding interface: when the current measured value of illumination and temperature is no longer updated, the data remains unchanged.
6. Integral interface: the integral of the current illumination value against time (unit: hour).
7. Integral averaging interface: within the specified time (unit: hour), the average of illumination value integral against time.
8. Manual storage interface: you can manually save the current illumination value by pressing the button and can check the total groups of manually stored data (storage mode), with the maximum capacity of 60 groups. You can manually refer to certain illumination data or delete all manually stored data.
9. Automatic storage interface: you can set the timing period, and the illumination value will be automatically recorded; you can refer to the total groups of automatically stored data (storage mode), with the maximum capacity of 2000 groups; you can manually refer to certain illumination data or delete all auto-stored data.

Note: The integral operation and automatic storage operation can be turned on at the same time. If successful, "Σ" and "REC" at the top of the screen will flash.


##### (2) Setting mode:

1. Manual storage setting interface: set manual storage on and off.
2. Auto storage settings interface: set automatic storage on and off.


3. Display unit setting interface: set unit of illumination value (Lux/Fc) and temperature value unit (°C/°F)
4. Timing shutdown setting interface: set shutdown timing on and off without button operation
5. Bluetooth switch setting interface: set Bluetooth on and off (Bluetooth version only)

## 6. Function operations


### 1. Turn on/off

Install batteries for the instrument, long press  button for 2 seconds, and enter real-time interface after full-screen display for 1 second.



### 2. Backlight on/off

After startup, short press  button in any interface to turn on/off backlight. Backlight will add up power consumption, so it is set to be off since startup.



### 3. Max / min value of illumination and temperature

In the real-time interface, short press  button to switch max value interface and min value interface, the top of the screen displays "MAX" and "MIN" respectively; short press the button again in the minimum interface to return to real-time interface.




### 4. Difference value of illumination


In the real-time interface, short press  button to switch to difference value interface. Negative number indicates that the real-time value becomes smaller, positive number indicates that the real-time value becomes bigger. The top of the screen displays "△" in difference value interface; short press  again in the difference interface and return to real-time interface. You can also press the button to return to the real-time interface in difference value interface.

### 5. Data holding

In real-time interface or difference value interface, short press  button to switch to holding interface, and the top of the screen displays "HOLD"; short press the button again in holding interface to return to the interface before. You can also return to the real-time interface by short press  button in holding interface.

### 6. Integral operation

In real-time interface, press  button to switch integral interface and integral averaging interface in turn. "Σ" and "Σ AVG" are respectively displayed at the top of screen; short press  again in integral averaging interface to return to real-time interface. You can also short press  button to return to the real-time interface under integral interface or integral averaging interface.

In Integral or Integral averages screen, start press  button to start or stop the integra. After the integration starts, it will keep running in the background, and the "Σ" at the top of the screen will start flashing, and the "Σ" will stop flashing when integration stops.




In integral interface, the upper half of the screen shows the integral of illumination in unit of  $Lx \cdot h$  or  $Fc \cdot h$ , the lower part shows the time span for integral, in unit of hour(h).



In average integral interface, the upper half of the screen shows the average illuminance in unit of  $Lx$  or  $Fc$ , the lower part shows the time for integration, in unit of hour (h).





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### 7. Manual storage operations

In real-time interface of normal mode, long press  button for 1s to enter into setting mode. Short press this button in the setting mode, switch the interface to manual storage setting interface, the upper half stands for the setting items for manual storage, and the lower half flashes to indicate whether setting items are on. As shown below:



(Left: manual storage off, right: manual storage on)

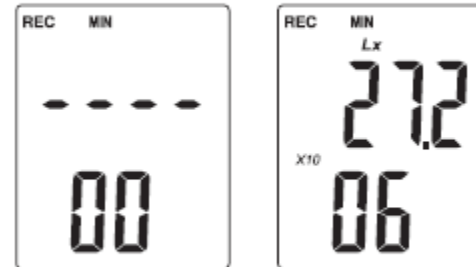
In manual storage setting interface, short press  button, manual storage is on;  
In manual storage setting interface, short press  button, manual storage is off;  
After confirming manual storage state, long press  for 1s to exit the setting mode and return to real-time interface. Then you can manually save data by pressing , the current saved result will be displayed for 1s of the storage is successful. As shown below:






"MIN" at the top of screen means that the maximum storage groups in current manual storage area is up to 60;  
The upper part shows the current saved value of illumination, the lower part shows the current storage number of data.

### 8. Manual storage query




In real-time interface, long press  for 1s, if it is automatically stored interface now, short press  to switch to manual storage interface, as shown below:

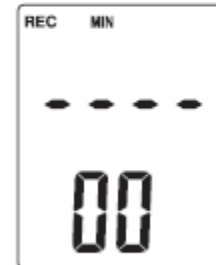


(Left: No record for manual storage, Right: 6 records for manual Storage)

The "MIN" at the top of the screen refers to the latest stored record displayed initially in the current manual storage area; short press  to switch to the previous record, short press  to switch to the next record; the lower part indicates the record number, and the upper part indicates the recorded illumination value. Long press  for 1s and return to the real-time interface.


### 9. Manually delete stored records

In real-time interface, press  for 1s, if it is auto-save interface now, short press  to switch to the manual storage interface, then long press  for 1s to delete all manually stored data, as shown below :



Long press  for 1s and return to real-time interface.

**15. Bluetooth on / off setting (Bluetooth version only)**

In real-time interface of normal mode, long press  for 1s, and enter into setting mode. Short press this button in the setting mode to switch to Bluetooth off setting interface. The upper part shows the setting item for Bluetooth, the lower part shows whether the item is on. As shown below:



In Bluetooth on/off settings interface, short press , Bluetooth is on;

In Bluetooth switch settings interface, short press , Bluetooth is off.

Note: If the battery voltage is too low, Bluetooth may become abnormal. The system will automatically hide bluetooth setting after turning on instrument. Please replace batteries and turn on the instrument again.

**7. Performance and indicators**

Refer to JJG245-2005 "illuminometer verification procedures"

Illumination probe		Silicon Diode	
Illumination range		0 ~ 200,000Lux (0 ~ 20000Fc), divided into four gears	
Gear	Gear range	Minimum resolution	Accuracy
X1 gear	0.0 ~ 199.9Lux	0.1 Lux	±3%rdg+5dgts
X10 gear	20.0*10 ~ 199.9*10Lux	1 Lux	±3%rdg+10dgts
X100 gear	20.0*100 ~ 199.9*100Lux	10 Lux	±4%rdg+10dgts
X1000 gear	20.0*1000 ~ 199.9*1000Lux	100 Lux	±4%rdg+10dgts
Repeatability		±2%	
Refresh rate		2 times/second	
Temperature probe		NTC Thermistor	
Temperature range		-20 ~ 50°C (-4 ~ 122°F)	
Temperature accuracy		±1.0 °C	
Power		Three AAA batteries	

**8. App operation instruction(Bluetooth version only)**

App main interface:

1. After Bluetooth device is connected, the app automatically synchronizes various states of the instrument, such as unit, and time interval of automatic storage.
2. The upper part shows real-time measured illumination value and temperature value, as well as real-time maximum value ( $\leq$ max value of the instrument) and real-time minimum value ( $\geq$ instrument minimum). You can also click the blue circle in the middle to check the maximum and minimum values saved by the instrument. The lower part displays the trend curve of illumination.
3. Click storage button to enter into storage interface, click the start button to record real-time measurement data, click the clear button to clear the saved real-time data.
4. Click Bluetooth icon in the upper left corner to enter into Bluetooth interface. Click the button in the upper right corner, a window including "settings", "language switch" and "folder" pops out.

