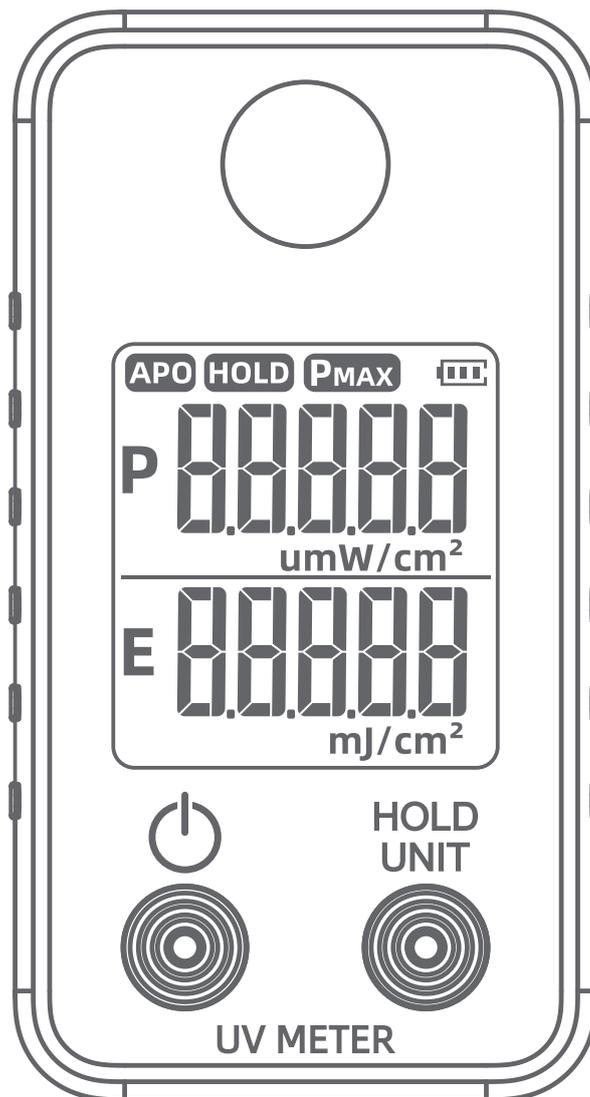




USER'S MANUAL

UV ENERGY METER



Note* Please read this manual carefully before using this product and keep it in a safe place for future use.



Thank you for your choice, in order for you to better use this product, please carefully read the manual. Please read the instruction manual carefully, if it involves any content and parameter changes, we will not believe there is any change in any content or parameter, it will not be notified separately.

OVERVIEW

The 8203 UV energy meters are designed for UV intensity and UV energy and are suitable for a wide range of applications, sunlight monitoring, UV luminaire measurement exposure machine measurements, laboratory equipment and medical device testing. Safety Instructions To avoid injury and product damage, please read all safety instructions before using the meter. Read all safety instructions before using the instrument.

Warning:

1. Do not use this product in the presence of explosive gaseous substances, flammable vapour substances, or in a powder-filled environment.

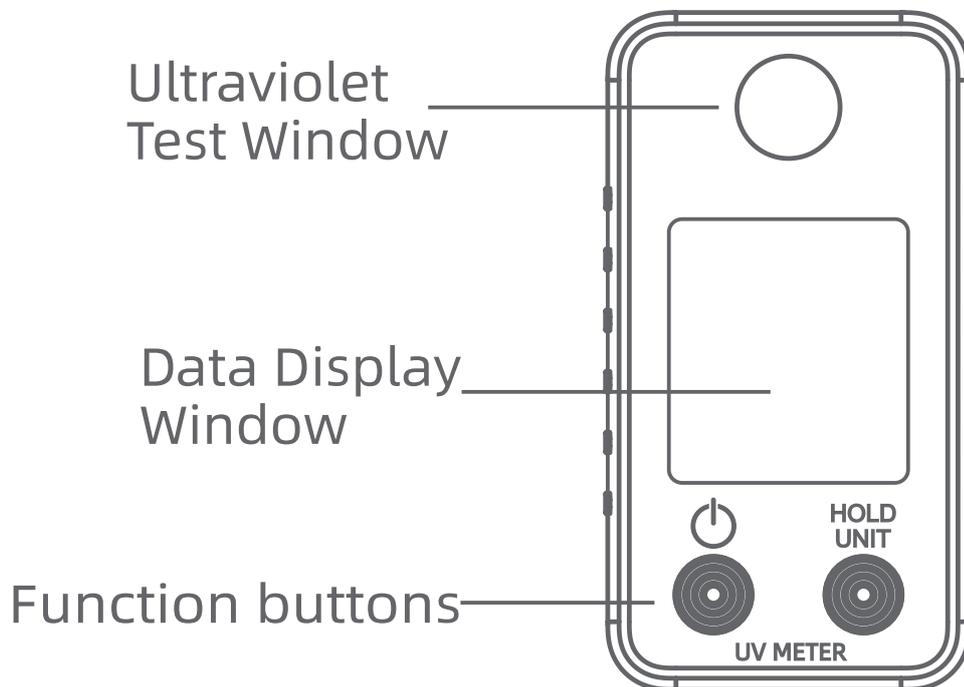


2. Do not use this product in the presence of explosive atmospheres, flammable vapours and dusty environments; 2. Check the product before use and do not use if it is damaged;
3. When "  " is displayed, please replace the battery as soon as possible to prevent the measurement error, which cause inaccuracy;
4. If you don't use the product for a long time or want to store the product in a temperature higher than 50°C, please take out the battery, otherwise it will not work. If the product is not used for a long time or to be stored in a temperature higher than 50°C, please take out the battery, otherwise the battery may leak;
5. Do not disassemble the product privately, only approved technicians are allowed to service the product. Only approved technicians are allowed to service this product.

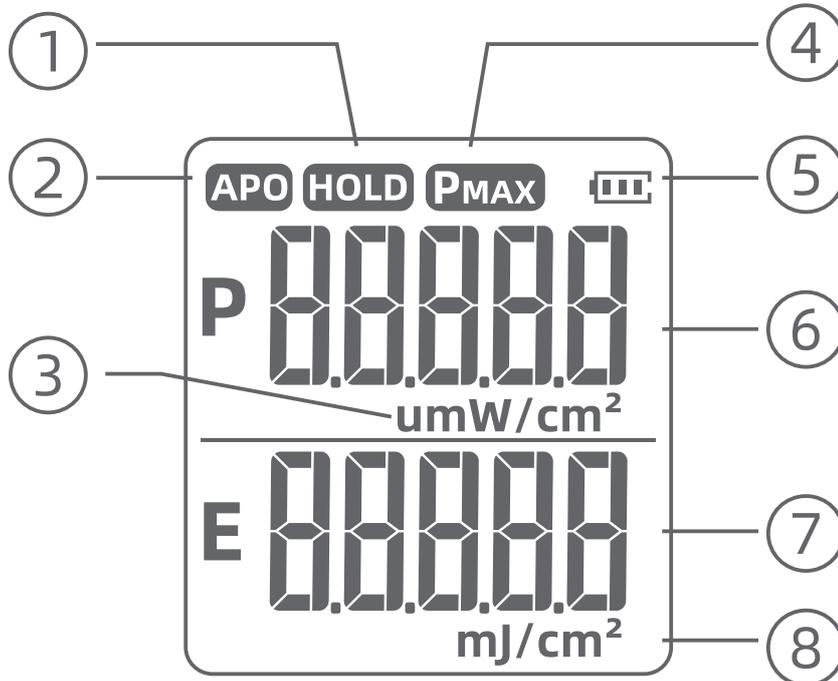


PRODUCT DESCRIPTION

8203 APPEARANCE



DISPLAY SCREEN



①	"HOLD" Data retention
②	"APO" Auto power off
③	$\mu\text{W}/\text{cm}^2$ Microwatt square centimetres
	mW/cm^2 Milliwatts square centimetres
	W/cm^2 Watt square centimetres
④	Peak hold
⑤	Battery Symbol
⑥	UV light intensity power
⑦	Ultraviolet energy
⑧	mJ/cm^2 Millijoules square centimetres



Technical indicators

Model	8203
Intensity Measurement Range	10 μ W~9999 μ W/cm ² ,1mW~30W/cm ²
Energy measurement range	0~99999mJ/cm ²
UV wavelength range	290nm~390nm(UVA/UVB)
Intensity/energy accuracy	\pm 10%+10dgts
Peak wavelength	λ P:310nm
Transducers	Digital sensors
Sampling rate	4 Times/second
Angle of incidence	100 Degrees
Probe method	All concerned
Operating environment	-10 $^{\circ}$ C~50 $^{\circ}$ C,Maximum 80%RH, Altitude<2000m
Product Size	100x55x26mm
Weights	Approx. 70g (without battery)
Power supply	2x1.5V AAA (R03/LR03)



Operation

Illumination measurement

1. Press the "  "power button to turn on/off;
2. Place the product in the measuring position, the test window is placed perpendicular to the light source;
3. Read the value on the side of the display;

Data Hold

1. If you want to keep the current reading, press the "HOLD" key lightly, the display shows the "HOLD" symbol, press the "HOLD" key lightly again, the " " Press the "HOLD" key again, the "HOLD" symbol disappears and normal measurement is resumed.

Unit switching

1. Press and hold the "UNIT" key for 2 seconds to enter and exit the "Pmax" peak-to-peak test. The intensity value will keep the maximum value displayed;
2. Unit conversion: $100 \text{ microwatts/cm}^2 = 1 \text{ watt/m}^2$
 $1,000,000 \text{ } \mu\text{W}/10,000 \text{ cm}^2 = 1 \text{ W/m}^2.$



Auto Power Off

1. Lightly press the "  " key to turn on the power;
2. If there is no operation within 10 minutes, the meter will automatically shut down;
3. If you need to disable the automatic shutdown function, please long press the "HOLD" key, at the same time long press the "  " key, until the display screen shows the APO symbol and the sub-window shows the APO symbol. The secondary window will show OFF, release the key at the same time, and the display will show "APO" in the screen. The "APO" symbol disappears from the display screen; the automatic shutdown function of the instrument is turned on successfully, remember to press the "HOLD" key after it is not in use. Remember to press power to turn off the instrument after it is not in use;
3. After restarting the instrument, the automatic shutdown function will be restored.



Maintenance

Replacing the Battery

1. When installing or replacing batteries (2x1.5V AAA), open the battery compartment door as shown in Diagram 1. Open the battery compartment door as shown in Figure 1; the batteries are loaded into the battery compartment according to the labeled polarity; Batteries are disposed of in accordance with the laws and regulations of each region;
2. When the battery is lower than 2.4V, the battery low voltage indication.

Schematic 1

