

321 – Luxímetro



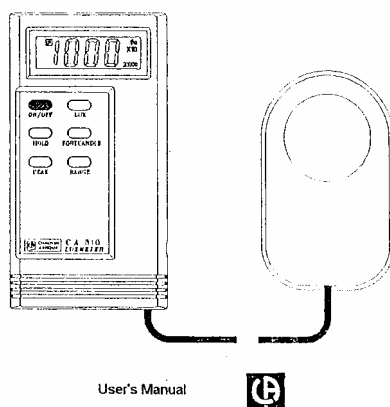
Luxímetro digital com saída analógica, sonda inclusa

47072.00

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Este item se refere a um luxímetro digital portátil acompanhado de detalhada ficha técnica e manual de operação.

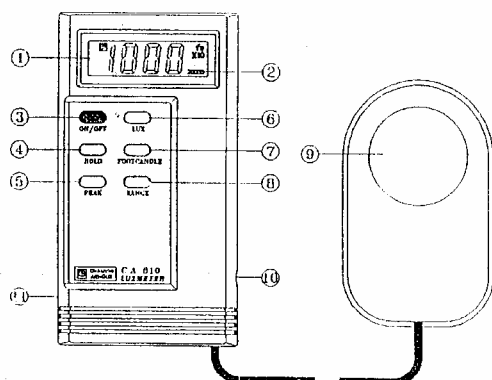
C.A 810 Luxmeter



PRESENTATION

The C.A 810 luxmeter is the ideal instrument for rapid lighting tests in the work place, whatever the type of lighting (spectral correction). It has built-in incidence correction (taking into account light not perpendicular to the plane of reference of the sensor).

The lighting sensor used is a silicon diode.



- ① 2000 count LCD
- ② Range selected : 20, 200 , 2000 or 20000
- ③ ON/OFF button
- ④ HOLD button
- ⑤ PEAK button
- ⑥ Button for reading in LUX
- ⑦ Button for reading in FOOTCANDLES
- ⑧ RANGE selection button
- ⑨ Lighting sensor
- ⑩ Analogue output
- ⑪ Fold-away stand (at the back)

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PHYWE

USE

1. Press ON/OFF to switch On
2. Select the reading unit, LUX or FOOTCANDLE, by pressing the corresponding button.
3. Press RANGE. The range selected is displayed
4. Remove the protective cover of the sensor and place the sensor at the place where the lighting is to be measured
5. Read the value on the display.
NB : Reading « x10 » for the 20000 range
6. Over range : in this case only the « 1 » on the left is displayed. Select a higher range.
7. Press HOLD to memorise the value of the display. The luxmeter no longer takes measurements. To take new measurements, press HOLD again to exit the memory function.
8. Press PEAK to memorise these values. Press again to exit this function.
NB : This mode continuously compares the value measured and the value in PEAK memory. Only the highest value is retained, replacing the previous PEAK value.
9. If required, use the analogue output to record lighting values.
10. After taking measurements, replace the cover on the light cell and press On/Off to switch Off the instrument.

SPECIFICATIONS

Display

- 2000 count LCD
- All the function and range symbols are displayed :
- HOLD [H], PEAK [P], LUX, fc
- Overload indication : only the « 1 » on the left is displayed
- Low battery indication : « BT » is displayed

Ranges

- 4 ranges : 20, 200, 2000 or 20000
NB : Reading x 10 for the 20000 range (display of « x10 » on the display)
- Reading in LUX or FOOTCANDLE (fc)
Reminder : 1 footcandle = 10.764 lux

Measurement rate : 2.5 measurements / second

Accuracy

- $\pm 3\%$ reading $\pm 0.5\%$ full scale
- $\pm 4\% \pm 10$ counts for measurements > 10000 lux
- Calibration on standard incandescent bulb 2856 K
- Temperature distortion : $\pm 0.1\%$ / °C

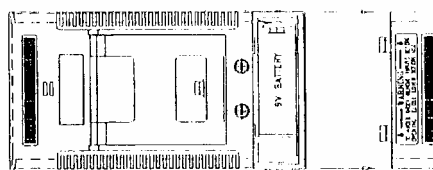
Zero reset : Automatic

Memorisation of the peak value

- Measurement of the peak value of a light impulse of minimum duration 50 ms.

TEST AND REPLACE THE BATTERY

1. « BT » is displayed to indicate that the battery needs to be changed
2. After having switched Off the instrument, press the cover of the battery compartment and push in the direction of the arrow to open (see diagram).
3. Disconnect the battery from the instrument. Replace it with a standard 9 V battery and replace the cover.



MAINTENANCE



For maintenance, only use approved spare parts. The manufacturer can not be held responsible for any accident that may occur after repair other than by its after sales service or approved repair service.

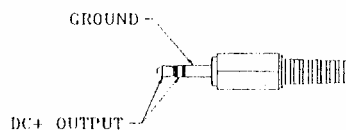
Annual recalibration : To maintain the accuracy of the luxmeter, we recommend having it checked or recalibrated every year.

Analogue output

- To record the values on a standard jack plug (3 core - coaxial - 3.5 mm)
- Load impedance $\geq 10 \text{ M}\Omega$
- Accuracy $\pm 0.7\%$ of the reading
- Output ratio :

Range	20	: 10 mV AC/DC _{lux} or fc
	200	: 1 mV AC/DC _{lux} or fc
	2000	: 0.1 mV AC/DC _{lux} or fc
	20000	: 0.1 mV AC/DC _{10 lux} or fc

Measurement
Weight



Power supply

- 1 standard battery 9 V (type CEI 6F22)
- Battery life : 200 hours approx.

Environmental conditions

- Use : 0...+40°C and up to 70% relative humidity
- Storage : -10...+60°C and up to 80% relative humidity

Dimensions and weight

- Case : 135 x 72 x 33 mm
- Cell : 100 x 60 x 27 mm
- Lead : length 1.5 m
- Weight of complete instrument : 250 g