

# LXP-2 LXP-10B LXP-10A

## LIGHT METERS



The new LXP digital light meter family allows for a very precise measurement of illuminance. Thanks to very high resolution LXP-10B (resolution 0.01 lx) and LXP-10A (resolution 0.001 lx) allows for escape route emergency light measurement. All of three light meter have built-in memory for measurement result storing, and additional function making work much easier.

#### The most important features of new LXP family are:

- Measurement resolution **LXP-2** – 0.1 lx (0.01 fc), **LXP-10B** – 0.01 lx (0.001 fc), **LXP-10A** - 0.001 lx (0.001 fc).
- High accuracy and fast response.
- Data-hold function for holding measuring values.
- Automatic zeroing,
- No need for correction factors calculating for different light sources thanks to a very good fit spectral sensitivity guaranteeing the correct measurement of intensity of the illumination regardless of the nature of radiation,
- Peak-hold function for tracing the peak signal of light pulse with duration longer than 0.1 s (0.4 s for LXP-2) and less than 1 s,
- Capable of selecting measuring mode in Lux or FC scale alternatively.
- Auto power off (5, 10 or 15 minutes) or disable AUTO power off.
- Maximum and minimum measurements.
- Relative reading.
- Easy to read large backlit display
- USB output connect with PC.
- Data transmission via radio connection using an optional adapter OR-1 (only LXP-10B, LXP-10A)
- four - LXP-2, five - LXP-10B and six measurement ranges - LXP-10A .
- Built-in memory - 99 result for LXP-2 or 999 for LXP-10A and LXP-10B, with can be checked in the meter or PC.
- 16000 values records data logger (traceable only in PC)

**Sonel S.A.**  
Wokulskiego 11  
58-100 Świdnica, PL  
tel. +48 74 85 83 860  
fax +48 74 85 83 809

[export@sonel.pl](mailto:export@sonel.pl)  
[www.sonel.pl](http://www.sonel.pl)

# LXP-2 / 10B / 10A

## Illuminance measurement probe LP-1

| Display Range [lx] | Resolution [lx] | Spectral uncertainty | Accuracy          |
|--------------------|-----------------|----------------------|-------------------|
| 0...399.9          | 0.1             | f1 ≤ 6%              | ±(5 % + 5 digits) |
| 400...3999         | 1               |                      |                   |
| 4.00 k...39.99 k   | 0.01 k          |                      |                   |
| 40.0 k...399.9 k   | 0.1 k           |                      |                   |

| Display Range [fc] | Resolution [fc] | Spectral uncertainty | Accuracy          |
|--------------------|-----------------|----------------------|-------------------|
| 0...39.9           | 0.01            | f1 ≤ 6%              | ±(5 % + 5 digits) |
| 40.0...399.9       | 0.1             |                      |                   |
| 400...3999         | 1               |                      |                   |
| 4.00 k...39.99 k   | 0.01 k          |                      |                   |

- display result in lx or fc  
- meter class B

## Illuminance measurement probe LP-10B

| Display Range [lx] | Resolution [lx] | Spectral uncertainty | Accuracy          |
|--------------------|-----------------|----------------------|-------------------|
| 0...39.99          | 0.01            | f1 ≤ 6%              | ±(5 % + 5 digits) |
| 40.0...399.9       | 0.1             |                      |                   |
| 400...3999         | 1               |                      |                   |
| 4.00 k...39.99 k   | 0.01 k          |                      |                   |
| 40.0 k...399.9 k   | 0.1 k           |                      |                   |

| Display Range [fc] | Resolution [fc] | Spectral uncertainty | Accuracy          |
|--------------------|-----------------|----------------------|-------------------|
| 0...3.999          | 0.001           | f1 ≤ 6%              | ±(5 % + 5 digits) |
| 4.00...39.99       | 0.01            |                      |                   |
| 40.0...399.9       | 0.1             |                      |                   |
| 400...3999         | 1               |                      |                   |
| 4 k...39.99 k      | 0.01 k          |                      |                   |

- display result in lx or fc  
- meter class B

## Illuminance measurement probe LP-10A

| Display Range [lx] | Resolution [lx] | Spectral uncertainty | Accuracy          |
|--------------------|-----------------|----------------------|-------------------|
| 0...3.999          | 0.001           | f1 ≤ 2%              | ±(2 % + 5 digits) |
| 4.00...39.99       | 0.01            |                      |                   |
| 40.0...399.9       | 0.1             |                      |                   |
| 400...3999         | 1               |                      |                   |
| 4.00 k...39.99 k   | 0.01 k          |                      |                   |
| 40.0 k...399.9 k   | 0.1 k           |                      |                   |

| Display Range [fc] | Resolution [fc] | Spectral uncertainty | Accuracy          |
|--------------------|-----------------|----------------------|-------------------|
| 0...3.999          | 0.001           | f1 ≤ 2%              | ±(2 % + 5 digits) |
| 4.00...39.99       | 0.01            |                      |                   |
| 40.0...399.9       | 0.1             |                      |                   |
| 400...3999         | 1               |                      |                   |
| 4.00 k...39.99 k   | 0.01 k          |                      |                   |

- display result in lx or fc (display result in fc with reduced resolution due to limitations of display)  
- meter class A

## LXP-2



## LXP-10



## LP-1



## LP-10A



## LP-10B



### Standard accessories:

- LXP-2 or LXP-10 meter,
- 9 V battery,
- measurement probe LP-1, LP-10B or LP-10A,

**Warning: LP-1 probe is not compatible with LXP-10A and LXP-10B meter**

- USB cable,
- data CD with "Light Meter" software,
- operating manual,
- carrying case,
- warranty card.

### Additional accessories:

- light measurements software Foton 2,
- USB interface for radio transmission OR-1 (LXP-10A/B only).

**WAPROFOTON2**  
**WADAUSBOR1**

### Rated operational conditions:

- operating temperature and humidity

0...50°C

0% to 80% RH

- storage temperature and humidity

-20...70°C

0% to 70% RH

### Other technical data:

- display 3½ digit LCD with high speed 40 segment bargraph
- over range indication „OL" displayed
- spectral response CIE photopic (CIE human eye response curve)
- cosine response (f2') ±3%
- sampling rate 1,3 times/sec
- power supply battery 9V or rechargeable battery 8,4 V
- photo detector one silicon photo diode and spectral response filter
- memory 99 results LXP-2, 999 results LXP-10
- photo detector lead length approx. 150cm
- photo detector dimensions 115 × 60 × 20mm
- meter dimensions 170 × 80 × 40mm
- weight 390g
- data transmission USB cable or wireless radio interface OR-1 (LXP-10B, LXP-10A only)