

LXP-10A / 10B

LP-10A
measuring probe



LP-10B
measuring probe



LXP-2

LP-1
measuring probe



Reliable illuminance measurements with the LXP series light meters

Main features

- measurements in class A (LXP-10A)
- high resolution up to 0.001 lx
- highly accurate measurements
- measurements of all types of light sources including:
 - LEDs lamps,
 - incandescent lamps,
 - fluorescent lamps,
 - electrodeless lamps,
 - high and low-pressure lamps
- no need to using correction factors
- photodiodes with filters make the spectral sensitivity characteristics well matched to the requirements of C.I.E.

Product functions

- data-hold for freezing measuring values
- automatic zeroing
- peak-hold for freezing the peak signal of light pulse
- capable of selecting measuring mode in Lux or FC scale
- MAX and MIN results save
- relative mode
- easy to read large backlit display
- USB connection with PC
- wireless connection (LXP-10A and LXP-10B)
- built-in memory: 99 points (LXP-2) or 999 points (LXP-10A and LXP-10B)
- 16 000 values records data logger
- auto power off



LXP-2

Model for people making basic lighting measurements of indoor and outdoor workplaces. The device works with LP-1 measuring probe (class B) which allows to proceed with measurements in a reliable way. The non-integrated probe eliminates the influence of the user to the measurement result.



Measurement of workplaces

LXP-10B

Model with resolution 0.01 lx allows to accurate lighting measurements in workplaces and emergency lighting in escape routes. It works with LP-10B measuring probe. The device has internal memory of 999 measurements and additional logger for recording data with a selectable sampling rate.



Measurement of emergency and evacuation lighting

LXP-10A

Device of the highest class A thanks to cooperation with LP-10A measuring probe. Therefore it allows to make the most accurate measurements in industrial zones and public facilities. In addition, the instrument has the ability to wirelessly send data to Sonel Reader PC software.



Measurement of LED lighting

Illumination measurement depending on used probe

The result may be displayed in lx or fc. Displaying fc results with reduced resolution due to the display limitations.

		Most accurate measurements	For emergency lighting	Basic workplaces measurement
		LXP-10A	LXP-10B	LXP-2
probe		LP-10A	LP-10B	LP-1
class		A	B	B
measurement range	lx	0.000...399.9k	0.00...399.9k	0.0...19.99k
	fc	0.000...39.99k	0.000...39.99k	0.0...1999
resolution	lx	0.001	0.01	0.1
	fc	0.001	0.001	0.01
spectral uncertainty f_1'		< 2%	< 6%	< 6%
cosine matching error f_2		$\pm 3\%$		
accuracy		$\pm(2\% \text{ m.v.} + 5 \text{ digits})$	$\pm(5\% \text{ m.v.} + 5 \text{ digits})$	$\pm(5\% \text{ m.v.} + 5 \text{ digits})$
number of ranges		6	5	3
memory		999 points		99 points
logger memory		16 000 points		

Abbreviation „m.v.“ used in the specification of measurement means a measured value.

Technical specification

display	3¼ digits, LCD with 40-segment bar indicator
exceeding of range	"OL" symbol
spectral sensitivity	CIE photopic curve (CIE human eye sensitivity curve)
power supply	9 V battery or 8.4 V rechargeable battery
photodetector	one silicon photodiode and spectral curve filter
photodetector lead length	approx. 150 cm (60")
photodetector dimensions	15 × 60 × 20 mm (4.5" × 2.4" × 0.8")
meter dimensions	170 × 80 × 40 mm (6.7" × 3.1" × 1.6")
weight	390 g (0.86 lbs)
communication interface	USB and wireless
operational temperature	0...50°C (32...122°F)
operational relative humidity	0...80%
storage temperature	-20...+70°C (-4...+158°F)
storage relative humidity	0...70%

Standard accessories



LP-10A measuring probe (for LXP-10A)
WAADALP10A



LP-10B measuring probe (for LXP-10B)
WAADALP10B



LP-1 measuring probe (for LXP-2)
WAADALP1



MINI-B 5 USB data transmission cable
WAPRZUSBMNIB5



Sonel Reader PC software
WAPROREADER



calibration certificate

Additional accessories



Portable USB license for Sonel software
WAADAKEY1



OR-1 USB wireless receiver
WAADAUSBOR1

