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## Technical Light Meter PCE-LED 20

### PCE-LED 20 LED Light Meter

#### **Handheld lux meter with automatic range selection, displays measuring units in lux or footcandle**

PCE-LED 20 is a light meter with an external LED light sensor. The cable of the sensor has an extended length of approx. 1.5 meters or 4.92 feet. Different work or production processes require different lighting conditions. In school, office and factory environments, lighting must also meet applicable safety standards. Indoor lighting conditions can be assessed quickly and easily using this meter. The LED light meter or lux meter can display measured values directly on the display. A direct measurement is thus immediately possible. By means of various presets, the functions installed in the device can also be activated or deactivated. These functions include the normal HOLD function, in which the measured value is frozen in the display. In addition, the extreme values as well as the average value can be frozen in the display. Further functions of the LED lux meter are the zero adjustment, the automatic shutdown and the automatic range selection.

Measurements are possible with the LED lux meter in lux or footcandle. The unit has only seven keys, allowing for one-hand operation. This also makes the instrument simple to use. The LED lux meter is a battery-powered handset, making the device portable and ideal for measurements in the field.

The measuring sensor of the LED lux meter has a large exposure area. For convenience, the sensor is located on a coiled cable that can be extended to full length only when needed. A protective cap on the sensor prolongs its life. This protective cap should be placed on the sensor during storage. In addition, the protective cap is required when a zero adjustment is to be performed on the LED lux meter.

- Displays measurements in lux or footcandle
- Battery status indicator
- Battery-saving automatic power off
- Overload indicator
- Wired sensor cable length of 1.5 m or 4.92 ft
- MIN / MAX / AVG / HOLD functions
- 2.5 measurements per second
- Zero adjustment
- Automatic range selection

## Technical Specifications:

Measuring ranges	40 / 400 / 4000 / 40000 / 400000 lx 40 / 400 / 4000 / 40000 fc
Measuring units	Lux (lx) or footcandle (fc)
Sensor	Silicone photodiode with built-in filter
Display	Max. representation 3999 Representation of 40000 / 400000 lux and 40000 fc in klux and kfc respectively
Measuring accuracy	± 3% (for a standard incandescent lamp at 2856 K and LED white light) ± 6% for other visible light sources
Overload indication	OL = Overload
Internal memory	99 measured values
Measuring rate	2.5 x per second
Measurable sources of light	LED and any other visible light
Measuring functions	Maximum / Minimum / Average / Hold / Zero Automatic balance Automatic shutdown Automatic range selection
Power supply	3 x 1.5 V AAA batteries
Operating conditions	+ 5 ... + 40 ° C / + 41 ... + 104 ° F, 0 ... 70 % RH
Storage conditions	- 10 ... + 60 ° C / + 14 ... + 140 ° F, 0 ... 70 % RH
For compliance with standards	EMC: EN 61326-1 (2006) IEC 61000-4-2 (2006) IEC 61000-4-3 (2006) + (2007) JIS C1609: 1993 CNS 5519 OSHA § 1915.82
Dimensions	Approx. 162 x 62 x 28 mm / 6.4 x 2.5 x 1.1" (L x W x H)
Weight	Approx. 250 g / 0.6 lb
Length of sensor cable	Approx. 1.5 m / 4.92'
Reproducibility	± 3%

## Delivery Contents:

- 1 x PCE-LED 20 LED light meter
- 1 x light sensor with protective cap
- 3 x batteries
- 1 x carrying case
- 1 x user manual