LUXMETER

PCE-LXT



- **Measuring range: ... 5 Lux in three areas**
- **Resolution: .1 lx / lx 1**
- **Accuracy: ± 5% of reading**
- **4 to 2-mA analog output**

The lux warning system consists of a measuring sensor with a handle and a wall bracket with a 1.5 m cable, a light transmitter and a digital display. The main area of ⍰⍰application of this lux warning system is in the continuous light measurement and light monitoring of photo laboratories and production rooms (e.g. food or drug production ...). The digital display has a relay output for controlling alarm horns or flashing lights for optical or acoustic warning and a control output.

The alarm output limit can be programmed on the display. The analog output signal can also be used to control window flaps ... or the transmitter signals can be stored on a logger, evaluated and documented. The sound warning device is very easy to connect and can be operated via 24 V mains power.

The lux warning system was developed for continuous measurement of light intensity. The light transmitter and the digital display have standard dimensions and therefore fit into any control cabinet that has standardized slots. The lux warning system is particularly suitable for monitoring in companies that produce or store light-sensitive materials (e.g. photo laboratories, food production (storage), pharmaceutical production (storage) ...).

Specification

Light	
Measuring range	0 ... 2000 lx
Resolution	0,1 lx
Accuracy	±5 % of the reading
Light	
Measuring range	2000 ... 20000 lx
Resolution	1 lx
Accuracy	±5 % of the reading
Light	
Measuring range	20000 ... 50000 lx
Resolution	1 lx
Accuracy	±5 % of the reading

General technical data	
Inputs	4 ... 20mA
Input (additional information)	Input signal from transmitter
Outputs	from transmitter 4 ... 20 mA 3-point control output (Com, NO, NC) Alarm output Relay output: 5 A / 240 VAC
cable length	1,5 m
Sensor	photodiode
Housing	ABS
Dimensions	Transmitter: L 125 x W 93 x H 50 mm / L 4.9 x W 3.7 x H 2.0 in Lux sensor: L 85 x W 58 x H 20 mm / L 3.3 x W 2.3 x H 0.8 in
Weights	Transmitter: 320g / 0.7 lb Lux sensor: 110g / 0.2 lb
Protection class (device)	IP54, IP65
Power supply	90 ... 260V AC | 50 ... 60 Hz
Operating conditions	0 ... 50 °C , 0 ... 80 %RH
Storage conditions	0 ... 50 °C , 0 ... 80 %RH
Dimensions (L x W x H)	105 x 96 x 48 mm
Weight	260 g

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