

# RPM MEASUREMENT STROBOSCOPE

## PCE-LES 103

### LED tachometer with a range of 60 ... 300.000 flashes

The LED stroboscope PCE-LES 103 combines LED technology with intelligent and compact electronics for precise control of the flash frequency. The mobile handheld stroboscope is particularly suitable for non-contact measurement and visualisation of movements on machines and systems. The frequency of the PCE-LES 103 can be continuously adjusted between 1 and 5000 Hz (60 - 300,000 flashes

per minute). The high-power LEDs used ensure a particularly long service life of the light sources. The stroboscope achieves an illuminance of 6160 lux at 1000 Hz and a distance of 30 cm. A long operating time is achieved by the large Li-ion battery.

### ISO cal option

- » brightness: 3 High Power LEDs
- » UV models available
- » flash frequency up to 300.000 FPM
- » 6160 lux at 30 cm / 1000 Hz
- » adjustable flash duration and phase shift
- » phase shift: -360° to +360°
- » automatic shutdown



## APPLICATION



## TECHNICAL SPECIFICATIONS

Display Type	TFT Color Display
Display Size	2.8 inches
Operating Time	4.5 hours
Additional Information	at flash frequency 100 Hz, 1%, display brightness 70%
Adjustable Auto Shutdown	2 ... 10 min.
Auto Shutdown Deactivatable	Yes
Brightness	11730 lux @ 20cm @ 1000Hz 1 % 6160 lux @ 30cm @ 1000Hz 1 % 2650 lux @ 50cm @ 1000Hz 1 %
Light Color	6500 K
Phase Shift	-360 ... 360 °
Pulse Width	0.01 ... 1% of pulse duration Resolution: 0.01% 0.01 ° ... 3.60 ° of 360 ° Resolution: 0.01 °
Menu Language	German, English, Spanish, French, Italian, Dutch, Turkish, Polish, Russian, Chinese
Protection Class (Device)	IP52
Power Supply	5V DC, 2A
Weight	284 g
Dimensions (L x W x H)	165 x 90 x 35 mm / 6,4 x 3,5 x 1,3 in
Operating Conditions	-20 ... 60 °C, 35 ... 85% r.H
Storage Conditions	-20 ... 60 °C, 35 ... 85% r.H
Instruction Manual Languages	German, English
<b>Frequency</b>	
Measurement Range	+60 FPM ... +9999.99 FPM
Resolution	0.01 FPM
Accuracy	0.003 % of the setting or ± 1 LSD
<b>Frequency</b>	
Measurement Range	+10000 FPM ... +300000 FPM
Resolution	0.1 FPM
Accuracy	0.003 % of the setting or ± 1 LSD
<b>Frequency</b>	
Measurement Range	+1 Hz ... +5000 Hz
Resolution	0.01 Hz
Accuracy	0.003 % of the setting or ± 1 LSD

### Batteries and Accumulators

Type	Lithium-Ion Battery
Lithium Info	Lithium in the product (built-in or included)
Capacity	2200 mAh
Voltage	7.4 V
System	Secondary: Rechargeable Battery / Accumulator Number

### Further Models:

PCE-LES 103UV-365	3 high power UVA LEDs UVA light 365 ... 370 nm
PCE-LES 103UV-385	3 high power UVA LEDs UVA light 380 ... 390 nm

### With external trigger input and output

PCE-LES 303	
PCE-LES 303UV-365	
PCE-LES 303UV-385	



Subject to change without notice