

Technical Stroboscope PCE-LES 100

**LED stroboscope / light and compact / 60 ... 99.990 flash/ min range /
one handed operation with 6 keys / 2 very bright LEDs (370 lux 50 cm) /
duplication and division of impulses / tripod connection**

The PCE-LES 100 LED Stroboscope combines LED technology with compact and accurate electronics, which controls the sequence and timing of flash over the entire measuring range. Thanks to LED technology, the LED Stroboscope does not need to periodically change the bulbs. The LED handheld stroboscope is ideal for non-contact measurements and to visualise movements on machinery and equipment, giving the viewer the impression that the object is stationary. The LED handheld stroboscope can be used for a variety of purposes, where it is important to make very fast movements visible (e.g. vibration), due to its wide frequency range and the different lengths of flash. Thanks to the compact design and size of the LED handheld stroboscope, you can always have it with you. The PCE-LES 100 LED handheld stroboscope is powered by two standard batteries (AA) included in the delivery.

- Handheld stroboscope with LED technology
(no need to change light bulbs)
- 60 to 99,990 flash
- Possibility to multiply and divide frequency by two
- Possibility to work with battery up to 11 h
- 2 bright LEDs (370 lux @ 50 cm)
- One hand use
- Power supply by standard batteries
- Compact housing, lightweight
- Tripod Connection
- Protective cover included in delivery

Technical specifications

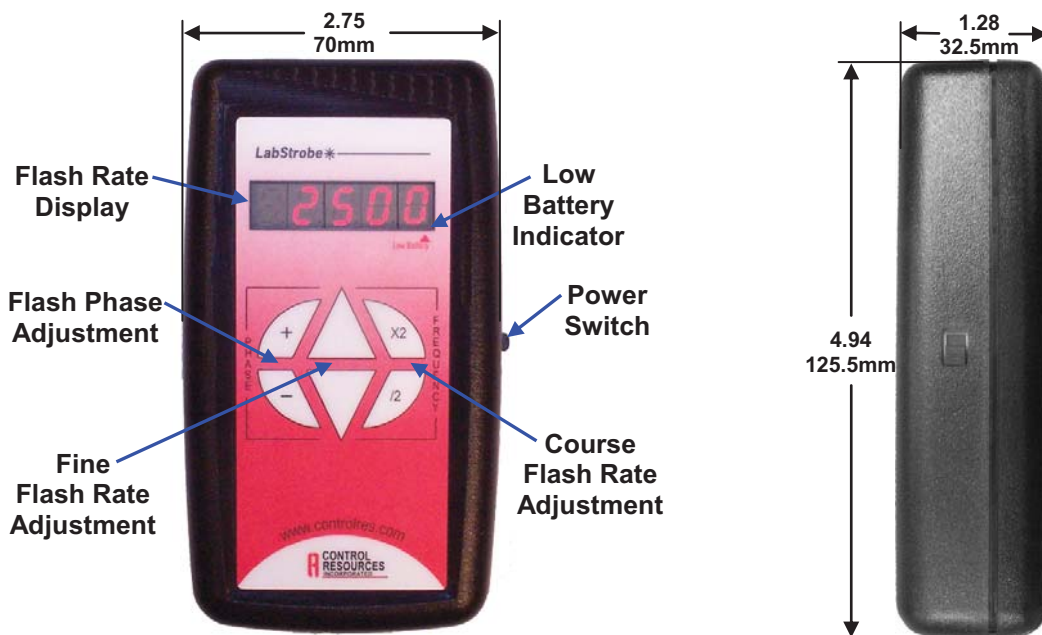
Range	60 ... 99.990 r.p.m 1 ... 1.666 Hz
Display	5 digits LCD
Impulses/Flash	possibility of duplication and division/fine tuning
Offset	yes, 360 °
Accuracy	0
60 ... 17.300	±1 LSD
17.300 ... 99.990	±0.009 %
Light source	LED
Light intensity	370 lux (50 cm distance, 6000 r.p.m.)
Battery	2 x AA batteries

Operating time	11 h
Environmental conditions	-10 ... 50 °C
Dimensions	124 x 71 x 33 mm
Weight	173 g

Scope of delivery for Stroboscope

1x Stroboscope PCE-LES 100, 2X AA batteries, 1x carrying bag, 1x User manual

PCE-LES 100 LED Stroboscope



OPERATION

Reference Mark: When measuring the RPM of a rotating device, place or select a unique mark on the device to use as a visual reference.

Correcting for Reference Mark Illusions: A flash rate of $\frac{1}{2}$ or $\frac{1}{4}$ of the true RPM will yield one reference mark image. To eliminate this type of error, adjust the fine or course flash rate keys to get two clear reference mark images 180° apart. Then press the $\frac{1}{2}$ key once and use fine adjustments to hold the single reference mark still.

Flash Phase Adjustments: When measuring the speed of a rotating device that is partially blocked from view so that only an arc is visible, one can shift a reference mark into view by using the Phase Adjustment keys.