UV-STROBOSCOPE

PCE-LES 303UV-365



- **3 high-power UVA LEDs**
- **light colour: 365 ... 370 nm**
- **flash frequency adjustable in FPM and Hz**
- **intensity: 1731 µW/cm² at 30 cm**
- **digital pulse width modulation**
- **phase shift: - 360 ° ... + 360 °**
- **quick adjustment via x2 and ÷2 key**
- **intuitive control keys and clear display**
- **pocket size**
- **external trigger input and output**
- **route measurement**

Analysing the movement of rotating machines is quick and easy with our UV-stroboscope. The stroboscope is equipped with 3 high-power LEDs, which together generate a light intensity of 1731 µW/cm² at 30 cm. The UV-stroboscope allows you to precisely set the flash frequency in both FPM and Hz. The UV-stroboscope is pocket-sized and is also mains-independent thanks to the rechargeable battery.

The UV-stroboscope is operated intuitively using the 10 keys, allowing quick adjustments to be made. The phase shift allows the observation point to be moved variably. The pulse width can be used to set the duration and therefore also the intensity of the flash frequency. The display brightness can be selected in the settings menu and the display can also be switched off after a period of inactivity, which extends the battery life. The stroboscope is supplied with a USB-C charging cable in a service bag.

When input trigger mode is activated, the device synchronises the flash frequency of the LEDs using the input trigger signal provided (or the output trigger signal). A rising or falling edge of the signal to be synchronised can be selected.

Specification

Frequency	
Measuring range	60 ... 9999,99 FPM
Resolution	0,01 FPM
Accuracy	±0.003 % of the setting or ±1 LSD

Frequency	
Measuring range	10000 ... 300000 FPM
Resolution	0,1 FPM
Accuracy	±0.003 % of the setting or ±1 LSD

Frequency	
Measuring range	1 ... 5000 Hz
Resolution	0,01 Hz
Accuracy	±0.003 % of the setting or ±1 LSD

General technical data	
Display type	LC colour display
Display size	2,8 Inch
Storage medium	Internal memory
Operating time	4,5 h
Operating time additional information	at flash frequency 100 Hz, 1 %, display brightness 70 %
Automatic power-off from...to	2 ... 10 min.
Luminous intensity	2943 µW/cm2 @ 20 cm @ 1000 Hz, 1% 1731 µW/cm2 @ 30 cm @ 1000 Hz, 1% 1045 µW/cm2 @ 50 cm @ 1000 Hz, 1 %
Light colour	UV light (365 ... 370 nm)
Phase shift	-360 ... 360 °
Pulse width	0.01 ... 1 % of pulse duration Resolution: 0.01 % 0.01 ° ... 3.60 ° of 360 ° Resolution: 0.01 °
Trigger input	Input: permitted input: NPN signal, 24 V DC, sensor supply: 24 V / 100 mA for external sensors Output: open-drain output, up to 24 V, 50 mA
Route measurement	Up to 15 routes, 10 machines per route, 5 points per machine
Menu language	Turkish, English, Polish, Spanish, German, Chinese, Russian, French, Italian, Dutch
Protection class (device)	IP52
Power supply	5 V DC, 2 A
(Rechargeable) battery	1 x 7,4 V DST604665 , Lithium-ion battery
Capacity	2200 mAh
Performance	16,28 Wh
Operating conditions	-20 ... 60 °C , 35 ... 85 % RH
Storage conditions	-20 ... 60 °C , 35 ... 85 % RH
Dimensions (L x W x H)	165 x 90 x 35 mm
Weight	284 g

PCE Instruments UK Ltd.
Chester Rd, Old Trafford Suite 1N-B, Trafford House, M32 0RS Manchester
Great Britain

Phone: +44 (0) 161 4649020
info@pce-instruments.co.uk