UV-STROBOSCOPE

PCE-LES 303UV-385



- **3 high-power UVA LEDs**
- **light colour: 365 ... 370 nm**
- **flash frequency adjustable in FPM and Hz**
- **intensity: 317 µW/cm² at 30 cm**
- **digital pulse width modulation**
- **phase shift: - 360 ° ... + 360 °**
- **quick adjustment via x2 and ÷2 keys**
- **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 stroboscope. The Defectoscope is equipped with 3 high-power UVA LEDs, which together generate a light intensity of 317 µW/cm² at a distance of 30 cm. The stroboscope allows you to set the flash frequency in both FPM and Hz. The stroboscope is pocket-sized and also mains-independent thanks to the rechargeable battery.

The Defectoscope 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, as can switching off the display 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 based on the input trigger signal provided (or with 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 Typ	LCD-Color 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 shutdown adjustable	2 ... 10 min.
Luminous intensity	635 µW/cm² @ 20 cm @ 1000 Hz, 1% 317 µW/cm² @ 30 cm @ 1000 Hz, 1% 115 µW/cm² @ 50 cm @ 1000 Hz, 1 %
Light color	UV light (380 ... 390 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: Allowable 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 (US), Polish, Spanish, German, Chinese, Russian, French, Italian, Dutch
Protection class (device)	IP52
Power supply	5 V DC, 2 A
Battery/battery	1 x 7,4 V DST604665 , Lithium-ion battery
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