


**PEEKEL**  
**INSTRUMENTS**
**SMS-100L**

## *Strobo Vision – LED Handheld Stroboscope*

### Features

- High performance LED stroboscope for industrial applications, with measuring range of 60...120.000 flashes/min
- Highest precision and constant outstanding illuminance through electronic flash control
- Maximal availability by means of long battery life; operation possible during battery charging; no wearout of flash tubes



### Details



State-of-the-art LED technology, combined with very precisely operating electronics, which controls flash sequences and length throughout the whole measuring range.

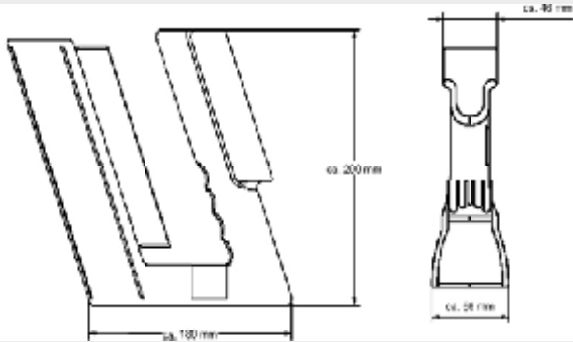
This high performance LED stroboscope is suitable for non-contact RPM measurements and for observation of fast, repeated motions of machines, their moving components or handled materials, at which the observer receives the subjective impression, that the object stands still.

Owing to its very wide frequency range and its adjustable flash length, it can be utilised in many various fields, where fast motions should be visualised (e.g. vibrations). With the multiplier/divider function, the actual RPM or frequency of the motion can be determined accurately. The phase shift function enables slow-motion effects and visual positioning of the observed component.

The instrument has a programmable trigger input for connecting external setpoint devices and a 12VDC power supply available for sensors.

## Order Info

### SMS-100L



Standard

LED stroboscope with integrated NiMH battery, rechargeable, AC charger and operation manual in carrying case.

Option

SMS-800N Calibration Certificate – Stroboscopes (new instrument)

## Spec

### SMS-100L

Range		1...2.000 Hz   60...120.000 FPM
Accuracy		0,001% (+/- 1 digit)
Resolution		0,1 FPM (60...12.000 FPM)   1 FPM (12001...120000) 0,001 Hz (1.000...199.999Hz)   0,01 Hz (200,00...1999,99)
Operation Modes	internal Trigger	multiplier und divider (X 2   X ½) temporary phase angle shift +6° / -6°
	external Trigger	phase angle delay 0...359,5° (increment 0,5°)
	programmed operation	delay time adjustable 0,00...999,99 ms trigger edge adjustable   trigger divider 1...128
Signal Output		Open Collector (3...24VDC, 100µsec, 4mA)
Signal Input	type	optocoupler (8...16mA   1,6 V   minimum pulse width 1 µsec)
	sensor supply	12 VDC   max. 100mA   multiplier 820 Ohm 24 VDC   max. 100mA   multiplier 1,8 kOhm
Display	Display type	6-digit main display   sub-displays   function display   backlighting
Flash Source	type	LED   white 6500K
	flash length	electronically controlled (frequency dependent)   (0,14...100µsec)
Illuminance	50 cm   6.000 fpm	> 250 Lux @ D=10cm   > 150 Lux @ D=20cm
	20 cm   6.000 fpm	> 1000 Lux @ D=10cm   > 350 Lux @ D=20cm
Battery	type rechargeable	NiMH-battery
	operation/ recharge time	approx. 2-4 h
	operation during charging	✓
Power Supply	charger	85...245 VAC (50...60Hz), universal plugs
Temperature Range	operation 0...35°	C
Weight	950	g
Housing Material	Polycarbonate	



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PEEKEL INSTRUMENTS B.V.  
Industrieweg 161, 3044 AS Rotterdam.  
Tel. (+31) (0)10 415 27 22 Fax (+31) (0)10 437 68 26.  
Internet: www.peekel.nl E-mail: info@peekel.nl