PCE-OM 15

Stroboscope with external trigger and AC power

The PCE-OM 15 stroboscope has an external trigger function as well as a 6500 K xenon white lamp. This unit flash freezes the motion and measures the speed of a rotating object without contact, simply by aiming and synchronizing its flash rate (fpm) with the speed (rpm) of the object. The stroboscope has a 230V power supply and it is ideal for quality control of all type of components and rotating machines in preventative inspection, maintenance procedures, motion analysis, gear movement, etc.

- ON / OFF switch, range adjustment, fine and coarse adjustment buttons to synchronize flash, double or divide in half the fashing and display rate with just one activation, memory
- . Frequency range adjustement with turn-key
- Detachable pistol-grip handle
- Xenon white lamp of 6.500 K ٠
- ٠ External trigger function
- ٠ RS-232 interface
- . Tripod for fix the unit
- ISO Certificate as optional



Technical specifications

Measurement range	5 to 12,500 r.p.m.	
	0.083 to 208 Hz	
Accuracy	±0.15 % (up to 1,000 r.p.m.)	
	±0.5 % (up to 3,300 r.p.m.)	
	±1.0 % (over)	
Resolution	0.1 (up to 999 r.p.m.)	
	1.0 (> 999 r.p.m.)	
Maximum distance	1 m (depending on operating	
	illumination)	
Phase shift	no	
Power	230 V AC	
	50 Hz	
Enclosure	ABS plastic	
Dimensions	210 x 120 x 120 mm	
Weight	1100 g	

Contents

PCE-OM 15 Stroboscope, detachable pistol-grip, power adaptor and user's manual

Model No.	Description	
PCE-OM 15	Stroboscope	
Optional access	vries	
XL-DS	Spare Xenon White lamp	
STAT	Tripod	



PCE-OM 200

Phase displacement stroboscope, trigger input and powered by rechargeable battery

High performance stroboscope with sturdy enclosure. The flash frequency is adjusted from the aparatus and appears on the LED dsiplay. The machine component or the material to be tested is illuminated in respect to the frequency of repetition of movement and when this is done, the user perceives the object to be stationary. Impulses can be divided or multiplied to determine the exact number of revolutions.

- Powered by rechargeable NiCad battery (14.4 V)
- Phase displacement ٠
- · Flash frequency adjusted using the device or it can be input from an external sensor/trigger input . Frequency can be adjusted: x2 or /2
- . Continuous operation without losing power thanks to the large reflector and good heat
- displacement 13 W, 6,300 K, white Xenon lamp
- ٠
- Large LED display Optional ISO calibration certificate .



Technical specifications		
Measurement ranges	30.0 to 14,000 r.p.m.	
	0.5 to 233.33 Hz	
Accuracy	±0.01 %	
Resolution	0.1 r.p.m.	
Maximum distance	1,5 m	
	(deppending on illumination)	
Phase displacement	yes, up to 360 °	
Power	internal rechargeable battery	
Mains Power	230 V / 50 Hz	
Indicator	LED	
Enclosure	plastic	
Dimensions	110 x 185 x 300 mm	
Weight	with accumulator 1880 g	
weight	with accumulator 1000 y	

Contents

PCE-OM 200 stroboscope, rechargeable battery, charger, replacement lamp, case and user's manual

Model No.	Description
PCE-0M 200	Stroboscope with rechargeable battery, charger, spare lamp and carrying case
Optional accessori	es
UNX-TP	Trigger cable (impulse input)
UNX-TC	Trigger cable (contact input)
EA-200	Replacement rechargeable battery
ER-200	Replacement xenon lamp
STAT	Tripod
CAL-DS	ISO Certificate

Beacon

Handheld stroboscope with high light unit

The high powered, handheld Beacon stroboscope allows you to measure revolutions, oscillations or observe movement in sieving processes. It has a small, light weight enclosure. Because of this it can be used to measure with comfort in the places difficult to access. The intensity of light of 1374 lux at 5 m distance allows you use it in conditions of low illumination. The flash frequency is adjusted with two keys and it appears on the digital display.

- ON/OFF switch, fine and coarse adjustment buttons to synchronize flash, double or divide to half the flashing
- 1374 lux Xenon white lamp (100 million flashes)
- FPS/Hz = flashes / second or Hz
- Three power levels
- Long battery life: 30 min
- (maximum intensity and flash range) • Solid enclosure
- Operates with rechargeable
- battery
- Two batteries included
- ISO Certificate as optional



Technical specifications

Measurement range	30.0 to 18,000 r.p.m.
	0.5 to 300 Hz
Accuracy	±0.01 % of reading
Resolution	± 0.1 r.p.m.
	(full range)
Maximum distance	5 m (depending on operating
	illumination)
Phase shift	yes, up to 360 °
Power	15 VDC (internal rechargeable battery,
	charges in 2 to 3 h)
Enclosure	ABS plastic
Dimensions	168 x 161 x 342 mm
Weight	2300 g (with battery)



eacon in use

Contents

Beacon Stroboscope, battery charger, adaptor, 2 batteries and user's manual

Model No.	Description
Beacon	Stroboscope with batteries
Optional accessorie	S
TC-BEAC	Trigger cable (impuls & contact)
ER-BEAC	Replacement xenon lamp
EA-BEAC	Replacement battery
NST-BEAC	Nylon carrying case
CAL-DS	ISO Certificate

PCE-T259

Handheld tachometer and stroboscope: two meters in one

This tachometer and stroboscope in one is useful for inspection and maintenance in production processes. It is a handheld meter that is ideal for checking revolutions of machine components or in motors, fans and other mechanisms.

Stroboscope

The stroboscope has a measurement range of 100 to 100,000 r.p.m.. Due to the connection IC and the orange lamp LED the meter has low power consumption and it doesn't require maintenance. The stroboscope is adjusted by two knobs for fine and normal adjustment.

Tachometer with non-contact measurement

Tachometer without contact from 5 to 100.000 r.p.m. with a resolution of 0.1 (within <1,000 r.p.m.).

- High power LED lamp
 - Solid, ABS plastic enclosure
- 5 digit LCD, 10mm,
- 180° automatic drawing (depending on measurer model)
- Memory for last, maximum and minimum values, automatic update when the unit is turned on
- ISO Certificate as optional



Technical specifications		
Measurement range	5 to 99,999 r.p.m. (photo)	
	100 to 100,000 r.p.m.	
	(stroboscope - flashes/min)	
Accuracy	±0.1 % of value; ±2 positions	
Resolution	0.5 r.p.m. <1000 r.p.m. (photo)	
	1.0 r.p.m. >1000 r.p.m. (photo)	
	0.1 r.p.m. (< 1000 r.p.m.) (stroboscope)	
	1.0 r.p.m. (> 1000 r.p.m.)(stroboscope)	
Maximum distance	50 to 150 mm; max. 300 mm	
Min Max Peak Hold	yes	
Interface /data transfert	· · · · · · · · · · · · · · · · · · ·	
Software	-	
PC requirements	-	
Power	4 AA batteries (1.5V)	
Enclosure	ABS plastic	
Dimensions	65 x 215 x 38 mm	
147 * 1 1	200 g	



Optical measurement of rotation

Contents

PCE-T259 Tachometer, reflective marking tape (600mm), carrying case and user's manual

Model No.	Description	
PCE-T259	Stroboscope and tachometer	
Optional access	ories	
REFB	Reflective marking tape (500mm roll)	
CAL-DS	ISO Certificate	
	(for stroboscope function)	
CAL-DT	ISO Certificate	
	(for tachometer function)	

PCE-DT62

Photo tachometer with laser for non-contact measurements

Portable PCE-DT62 tachometer is the ideal measurer for measuring revolutions in machine components, conveyor belts, motors, etc.. The non-contact measurement is carried out with the help of a reflective marker on the object to be measured and you must aim the laser light beam for accurate readings that are refreshed every second. This tachometer has a switch to select the measurement: you can select the revolutions per minute measurement (RPM) or the count (TOT). You can also store the MAX and MIN values.

- Narrow beam laser for accurate non-contact measurement
- Use reflective marker on object to be measured and aim the laser light beam to take accurate measurements that refresh every second
- Solid ABS plastic enclosure
- Built-in memory recall, Last, MIN / MAX values stored
- ISO Certificate optional



Combination contact/photo tachometer

This handheld tachometer is a complete instrument for optical RPM (Revolutions Per Minute) measurement. The PCE-T236 is suitable for revolutions of machine components, conveyor belts, motors, etc. Measurement without contact (photo) using a reflective marker on the object to be measured. You only need to point the laser light beam at the rotating component for accurate readings that are refreshed every second. Conact measurement with contact through a flat tip, spare, cone tip or surface wheels which are included in the delivery (see picture). This tachometer has a switch to select four ranges and memory which stores MAX, MIN and Peak values.

- Provides RPM (photo) readings with reflective tape markers (60 mm) and linear surface speed (contact) measurements
- Contact RPM measurements for flywheels, conveyor belts, pumps and elevators
- Non-contact RPM measurements for fans, motors and gears Tachometer memory stores last, MIN e MAX readings Complete with wheel for linear surface RPM measurements

- ISO Certificate as optional



Technical specifications		
Measurement range	2 to 99,999 r.p.m.	
Resolution	in the range 2 to 999.9 = 0.1 r.p.m.	
	in the range 1000 to 99,999 = 1 r.p.m.	
Accuracy	\pm 0.05 % of reading, \pm 1 digit	
Maximum distance	500 mm	
Memory	MAX ,MIN and last values	
Power	1 battery 9 V pack	
Operating temperature	0 to +50 °C	
Enclosure	ABS plastic	
Indicator	5 digit LCD (16 mm)	
Dimensions	160 x 58 x 39 mm	
Weight	150 g	

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recinical specifications		
Measurement range	5 to 99,999 r.p.m. (photo measure.)	
	0.5 to 19,999 r.p.m. (measure. with contact)	
	0.05 to 1999 m/mim (measure. with contact)	
Accuracy	\pm 0.05 % of reading; \pm 1 dgt.	
Resolution	0.1 r.p.m. (range 0.5 to 999.9 r.p.m.)	
	1.0 r.p.m. (other range)	
Maximum distance	300 mm	
Min Max Peak Hold	yes	
Interface	-	
Software	-	
PC requirements	-	
Power	4 AA batteries (1.5 V)	
Enclosure	ABS plastic	
Dimensions	65 x 215 x 38 mm	
Weight	300 g	

PCE-T236, cone tip, flat tip, surface wheel, reflective marker tape (60 mm) and user's manual

Contents

Laser Photo Tachometer, batteries, 5 reflective tape markers of (15 cm), carrying case and user's manual

Model No.	Description	Model No.	Description
PCE-DT62	Tachometer	PCE-T236	Tachometer
Optional accessorie	S	Optional accessori	es
REFB	Reflective tape marker (5 m roll)	REFB	Spare reflective marker tape
CAL-DT	ISO Certificate		(roll of 5 m)
		EMA-DT	Spare adaptor kit
		CAL-DT	ISO Certificate
Use of the PCE-DT62	handheld tachometer	Use of PCE-T236 ha	ndheld tachometer

Contents



ð non-contact measurement





rement with contact

PCE-151

Tachometer with interface and software

Photo tachometer with RS-232 interface, software for data transfer. You can add an adaptor for contact measurements. Thanks to the possibility of data transmission, you can use this unit in experiments and in tests to determine the number of rotations of a specific object. It is also possible to take an accurate count of pieces or products on conveyor belts. The usit can also be fixed to a tripod or another mounting device.

- Solid enclosure
- · Non-contact measurement with reflective tape markers
- · Contact measurement with an optional adaptor .
- 5 digit LCD (10 mm)
- Tachometer memory stores last, MIN e MAX readings Auto shut-off after 30 min .
- RS-232 interface and software to transfer data to a PC
- · ISO Certificate as optional



Technical specifications		
Measurement range	10 to 99,999 r.p.m. (photo measurement)	
	0 to 99,999 (photo measurement)	
	0.2 to 1999 Hz (r/s), (optical measurement)	
	10 to 29,999 r.p.m. (with adaptor)	
	0.2 to 500 Hz (r/s), (with adaptor)	
Accuracy	\pm 0.04 % of reading; \pm 2 dgt.	
Resolution	0.001 / 0.01 / 0.1 / 1 in all ranges	
	(photo and contact measurements)	
Maximum distance	300 mm	
Min Max Peak Hold	yes	
Interface	yes, RS-232, sampling time of 2 sec	
Software	yes, for tansfert and check values	
PC requirements	CD, Windows 95 or better	
Power	4 AA batteries (1.5 V)	
Enclosure	ABS plastic	
Dimensions	172x 63x 36 mm	
Weight	190 g	

Contents

PCE-151 Tachometer, reflective marker tape, interface, software and user's manual

Model No. Description PCE-151 Tachometer Optional accessories Spare reflective marker tape (5 m) REFB PCE-152 Adaptor for contact measurement STAT Tripod CAL-DT ISO Certificate

measurement of conveyor bel

non-contact measurement measurement with contact

· Built-in memory recalls Last, MIN / MAX values stored · Large measurement range, External sensors

Contact tachometer

• Velocity in m/min, r.p.m.

• Large 5 digit LCD (12 mm)

(optional) Internal totals and

PCE-155

- timer functions
- · ISO Certificate as optional

and convex tips and a 10cm linear speed wheel.

· Handheld tachometer for non-contact measurements up to 8 m



Technical specifications		
Contact RPM range	0.5 to 20,000 r.p.m. (probes)	
	0.5 to 12,000 r.p.m. (wheels)	
	accurate to within ±0.05 %	
Optical range	5 to 200,000 r.p.m.	
	accurate to within ±0.01 %	
Resolution	0.001 to 1.0 r.p.m.	
Operating range	5 cm to 8 m, \pm 70 °	
Laser sensor	class 3R, 3 mW, 650 nm	
Length measurement	0 to 999,999 inchs, feet,	
	yards, cm or m (10 cm wheel)	
Stop/time switch	minutes: seconds: decimal up to	
	99:59.9	
Memory	MIN, MAX and last values	
Indicator	5 digit LCD (12 mm)	
Tipe input	jack plug	
Pulse output	jack plug,	
	1:1, 0 to 3.3 VDC	
Power	2 AA batteries (1.5 V)	
Operating conditions	+5 °C to +40 °C, 5 % to 80 % r.h.	
Enclosure	Rubberized	
Dimensions	175 x 61 x 41 mm	
Weight	210 g	

Tachometer/Ratemeter with a range of 8 m, pulse output and sensors

The PCE-155 handheld tachometer is a digital, battery-powered, optical unit which operates up to 8m

from a moving target using a laser light source. The ergonomic design allows for safe, direct line-of-

sight of both the target and the display at the same time, while providing a non-slip rubber surface for

single hand operation. This tachometer is a 32 function tachometer/ratemeter and timer (stopwatch),

which can be programmed. Support is built-in for both our optional remote contact assembly (RCA) and our remote sensors. It has a TTL compatible Pulse Output to trigger devices like data collectors or

stroboscopes. The kit comes supplied complete with a Remote Contact Assembly including concave

Contents

PCE-155: tachometer and user's manual with pictures or PCE-155 KIT: tachometer, tips, 10cm wheel, reflective marking tape, handle and carrying case.

Model No.	Description
PCE-155 PCE-155 Kit	Handheld tachometer PCE-155
Optional accessories	
OSENP	Optical sensor
ISENP	Infrared sensor
STAT	Tripod to mount the PCE-155
CAL-TRM	ISO-9000 Certificate
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non-contact measurement



measurement with contact measurement of conveyor belt