

# Handheld Tachometer PCE-DSX 20 with Trigger Input



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**Portable, stroboscope for the professional in operation / Bright xenon flash / LED display / External trigger input / Setting via buttons and rotary knob**

The stroboscope is usually used for speed or vibration measurement or for motion observations. This stroboscope has a small design and is light in weight. This allows the stroboscope to be conveniently used even when measuring in hard-to-reach places. The device is the optimal tool for the practitioner. The flash rate is set via a rotary knob on the stroboscope and displayed on a digital display. Continuous operation is easily possible with the stroboscope. The device also has a trigger input, which allows external triggering or synchronization. The supply voltage is ensured by mains cable. The half or double speed can be selected via the keyboard.

### Applications:

This stroboscope is the ideal tool for service technicians and maintenance personnel of industrial equipment and machinery. Check the speed, the synchronization or make mistakes visible that you can not see with the naked eye - optically bring processes to a standstill. The stroboscope has been used for many years in many industrial processes, but also in research a. Development proven:

- At bottling plants and labeling machines of breweries and mineral water producers
- On paper and printing machines: The stroboscope is used here to detect the register at speeds of more than 60 m / min. One looks at the web before winding with the stroboscope). The stroboscope makes it very easy to visualize even the smallest process errors, such as pulsations. The following picture was taken on the wire of a paper machine. All strips and suckers below the sieve running along these strips worked perfectly, except for one. Of course, this was not visually visible. With the stroboscope, the source of error could be detected by very fine marks on the finished paper:
- On weaving machines in textile factories - in the automotive industry - on high-speed machines and motors: The stroboscope is essentially used to determine the speed, as shown in the picture on the right. Often this serves to check or adjust the speed of large high-speed rotors with the data from the process control system or specified on a digital display speed value, which usually comes electrically from the drive. In addition, the shaft shaft is checked for concentricity. Thus, the stroboscope is the optimal tool for inspecting motors, shafts, belts, cylinders ... just what rotates in operation.
- At ventilation systems in the air conditioning industry - on strip rolling mills in the steel industry - Wherever rotating parts are used or in high-volume production processes, the stroboscope is the perfect tool.

**Note on accident prevention when using the stroboscope:** All objects that are brought to a standstill with the stroboscope move at high speed. Therefore always keep a safe distance and do not touch the test object.

With a well or optimally centered shaft with impeller, you always measure the actual speed at optical standstill. However, if the impeller has an axial impact or an imbalance, then you will measure twice the speed with the stroboscope, for example. This fact often leads to misjudgments in local operations.

Subject to change

# Specifications

<b>Function</b>	<b>Lightning / speed</b>
Area	50 ... 35000 RPM / FPM
Resolution	< 1000 PRM: 0.1 RPM < 9999 RPM: 1 RPM < 35000 RPM: 10 RPM
Accuracy	± (0.05% v.Mw + 2 Dgt)
<b>Function</b>	<b>Flash frequency</b>
Area	0.833 ... 583.3 Hz
Resolution	< 599.9 RPM: 0.001 Hz < 5999 RPM: 0.01 Hz < 35000 RPM: 0.1 Hz
Accuracy	± (0.05% v.Mw + 2 Dgt)
<b>Function</b>	<b>Phase shift</b>
Area	0 ... 359°
Resolution	1°
Accuracy	± (0.1% v.Mw + 2 Dgt)
<b>Function</b>	<b>Ext. Trigger</b>
Area	0 ... 1200 ms
Resolution	< 1000 PRM: 0.1 RPM < 9999 RPM: 1 RPM < 35000 RPM: 10 RPM
Accuracy	± (0.1% v.Mw + 2 Dgt)
Level ext. trigger	High: 2.5 ... 12V Low: < 0.8V
Lamp type	Xenon flash
Flash response time	10 ... 30 µs
Color temperature	6500K
Flash output	8 joules
Power supply	PCE-DSX 20: 230 V AC 50/60 Hz PCE-DSX 20-US: 110 V AC 50/60 Hz
Current consumption	240-mA @ 3600 FPM
Operating conditions	0 ... 50°C / 32 ... 122°F, max 80% RH
Dimensions	230 x 110 x 110 mm / 9 x 4.3 x 4.3 in
Weight	About 1145 g / 2.5 lbs

# More information

More product info



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