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## Manual Rotation Meter PCE-AT 5



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## 1 Introduction

Thank you for purchasing a rotation meter PCE-AT5 from PCE Instruments.

The PCE-AT 5 rotation meter is a portable and hand-held device to measure the rotation speed in combustion engines with electric ignition. The large digital display shows the settings (strokes / cylinders) as well as the number of revolutions quickly and clearly. By means of the inductive clip which must be put on the plug lead, revolutions can be tested in few seconds. Due to its compact size, the PCE-AT 5 digital rotation meter is a very flexible tool which can be used not only in workshops. This meter can be used for two stroke engines with a single cylinder (motorbike, etc.) as well as for four-stroke engines with eight cylinders. This rotation meter can be used by professional mechanics and also by non-professionals as it is very easy to use. Users can choose between a display backlight or an integrated torch when working under poor lighting conditions.

## 2 Safety information

Please read this manual carefully and completely before you use the device for the first time. The device may only be used by qualified personnel and repaired by PCE Instruments personnel. There is no warranty of damages or injuries caused by non-observance of the manual.

- To avoid injuries and damage, make sure that the test lead does not touch the engine.
- Never touch the engine as there is the risk of burning.
- When not using the device for a long period of time, remove the batteries from the meter.
- The device may only be used in approved temperature range.
- The case must only be opened by qualified personnel of PCE Instruments.
- The instrument should never be placed with the user interface facing an object (e.g. keyboard side on a table).
- You must not make any technical changes to the device.
- The appliance should only be cleaned with a damp cloth / use only pH-neutral cleaner.

This manual is published by PCE Instruments without any guarantee.

We expressly refer to our general guarantee terms, they can be found in our general terms of business.

If you have any questions please contact PCE Instruments.

### 3 Specifications

#### 3.1 General

Display	6 digit LC display
Accuracy	± 10 RPM
Measurement interval	0.5 sec.
Method of measurement	counting pulses
Accessories	test lead
Operating temperature	0 °C ... 50 °C
Dimensions	160 x 58 x 39 mm
Weight	151 g

#### 3.2 Measuring ranges

Engine to be measured		Measurable RPM range
Stroke	Cylinder	
2	1	100 ... 20000
4	2	
4	3	100 ... 13000
2	2	100 ... 10000
4	4	
4	6	100 ... 6500
4	1	100 ... 20000
4	5	100 ... 7000
2	4	100 ... 4800
4	8	

### 4 Device description

#### 4.1 Buttons

RST: On/Off and Reset button

SRT#CYL: Selection of the type of engine and the number of cylinders

BACKLIGHT: Push this button to either switch on the display backlight or the integrated torch.

#### 4.2 LCD display

STR: Selection of the motor strokes

CYL: Selection of the number of cylinders

RPM: current engine speed

### 5 Instructions

1. To make a measurement, first open the bonnet and remove the engine cover if necessary to get access to the individual plug leads and to the main plug lead.
2. Connect the test lead to the main plug lead of the engine and connect the other end to the meter.
3. Push the RST button to switch on the device.
4. Push the STR#CYL button to select the number of cylinders and the engine strokes.
5. The meter now determines the revolutions per minute by means of the Ignition pulses that o through the main plug lead.

## **6 Contact**

If you have any questions about our range of products or measuring instruments please contact PCE Instruments.

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