



# User Manual

Magnetic Stirrer PCE-MSR 50



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski, русский, 中文) can be found by using our product search on: [www.pce-instruments.com](http://www.pce-instruments.com)

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## 1 Safety notes

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. Damage or injuries caused by non-observance of the manual are excluded from our liability and not covered by our warranty.

- The device must only be used as described in this instruction manual. If used otherwise, this can cause dangerous situations for the user and damage to the meter.
- The instrument may only be used if the environmental conditions (temperature, relative humidity, ...) are within the ranges stated in the technical specifications. Do not expose the device to extreme temperatures, direct sunlight, extreme humidity or moisture.
- Do not expose the device to shocks or strong vibrations.
- The case should only be opened by qualified PCE Instruments personnel.
- Never use the instrument when your hands are wet.
- 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, no abrasives or solvents.
- The device must only be used with accessories from PCE Instruments or equivalent.
- Before each use, inspect the case for visible damage. If any damage is visible, do not use the device.
- Do not use the instrument in explosive atmospheres.
- The measurement range as stated in the specifications must not be exceeded under any circumstances.
- Do not use the magnetic stirrer with flammable, explosive or corrosive media.
- Place the magnetic stirrer on a smooth and solid surface.
- Non-observance of the safety notes can cause damage to the device and injuries to the user.

We do not assume liability for printing errors or any other mistakes in this manual.

We expressly point to our general guarantee terms which can be found in our general terms of business.

If you have any questions please contact PCE Instruments. The contact details can be found at the end of this manual.



## 2 Technical specifications

Max. stirring volume	100 ... 1000 ml
Adjustable speed	0 ... 1600 rpm
Accuracy of speed	±20 rpm
Platform size	Ø 88 mm
Platform material	Plastic
Protection class	IP21
Power supply	90 ... 230 V AC / 5 V DC
Input	≤15 W
Dimensions	125 x 110 x 70 mm
Weight	Approx. 0.5 kg

## 3 Delivery contents

1 x magnetic stirrer PCE-MSR 50

1 x mains adaptor 5 V / 2 A

1 x stirring bar

1 x user manual

## 4 Operation

1. Place the magnetic stirrer on a smooth and solid surface. The knob should be at minimum position.
2. Connect the magnetic stirrer to the power supply.
3. Place the beaker with the medium in the middle of the platform. To adjust the stirring speed, slowly turn the knob to the desired position. If you turn it too quickly, the liquid can spill. In this case, turn the knob back to minimum and then slowly increase the stirring speed again.
4. Mixed samples of small volume should not be stirred at maximum speed to avoid the beaker from falling off the platform.

## 5 Cleaning

Clean the surface of the instrument with a cloth and some pH = 7 ±1 non-corrosive liquid detergent and make sure the instrument is completely dry before using it.

## 6 Contact

If you have any questions, suggestions or technical problems, please do not hesitate to contact us. You will find the relevant contact information at the end of this user manual.

## 7 Disposal

For the disposal of batteries in the EU, the 2006/66/EC directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose.

In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law.

For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations.

If you have any questions, please contact PCE Instruments.





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