



PeakTech 3203 Analog Ammeter Instruction Manual

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PeakTech 3203 Analog Ammeter



Safety Precautions

This product complies with the requirements of the following directives of the European Union for CE conformity: 2014/30/EU (electromagnetic compatibility), 2014/35/EU (low voltage), 2011/65/EU (RoHS). Overvoltage category III 600 V; Pollution degree 2. To ensure safe operation of the equipment and eliminate the danger of serious injury due to short-circuits (arcing), the following safety precautions must be observed. Damages resulting from failure to observe these safety precautions are exempt from any legal claims whatever.

- Do not use this instrument for high-energy industrial installation measurement.
- Do not place the equipment on damp or wet surfaces.
- Do not operate the equipment near strong magnetic fields (motors, transformers etc.).
- Do not exceed the maximum permissible input ratings (danger of serious injury and/or destruction of the equipment).
- Do not operate the meter before the cabinet has been closed and screwed safely as terminal can carry voltage.
- Replace a defective fuse only with a fuse of the original rating. Never short-circuit fuse or fuse holding.
- To avoid electric shock, do not operate this product in wet or damp conditions. Conduct measuring works only in dry clothing and rubber shoes, i. e. on isolating mats.
- Never touch the tips of the test leads or probe.
- Disconnect test leads or probe from the measuring circuit before switching modes or functions.
- Check test leads and probes for faulty insulation or bare wires before connection to the equipment.
- Comply with the warning labels and other info on the equipment.
- The measurement instrument is not to be operated unattended.
- Do not subject the equipment to direct sunlight or extreme temperatures, humidity or dampness.
- Do not subject the equipment to shocks or strong vibrations.
- Allow the equipment to stabilize at room temperature before taking up measurement (important for exact measurements).
- The meter is suitable for indoor use only
- Do not store the meter in a place of explosive, inflammable substances.
- Opening the equipment and service – and repair work must only be performed by qualified service personnel
- Do not place the equipment face-down on any table or work bench to prevent damaging the controls at the front.

Cleaning the cabinet

Periodically wipe the cabinet with a damp cloth and mild detergent. Do not use abrasives or solvents. Ensure that no water gets inside the equipment to prevent possible shorts and damage to the equipment.

Features

- Analogue mirror scale with point bearing moving-coil.
- Easy operation, compact size
- Measuring ranges: for each function DCA and ACA up to 10A there are 4 ranges
- all ranges are protected with fuses
- Application: Education, Maintenance, Production line, School, Laboratory, Industrial and Quality control.

Specifications

General specifications

Display	Analogue display
overload protection	mA-ranges: 0,5 A / 500V; 6,3x32mm 10 A-range: 10 A / 500V; 6,3x32mm
operation temperature	0°C to +40°C; < 75% RH
storage temperature	-10°C to +50°C; < 75% RH
dimensions (WxHxD)	105 x 150 x 45 mm
weight	300g

Range	Accuracy	Overload Protection
5 mA	+/- 3,0 % full scale	0,5 A / 500 V
50 mA		
500 mA		
10 A		10 A / 500 V

Range	Accuracy	Overload Protection
5 mA	+/- 4,0 % full scale	0,5 A / 500 V
50 mA		
500 mA		
10 A		10 A / 500 V

Front Panel Description



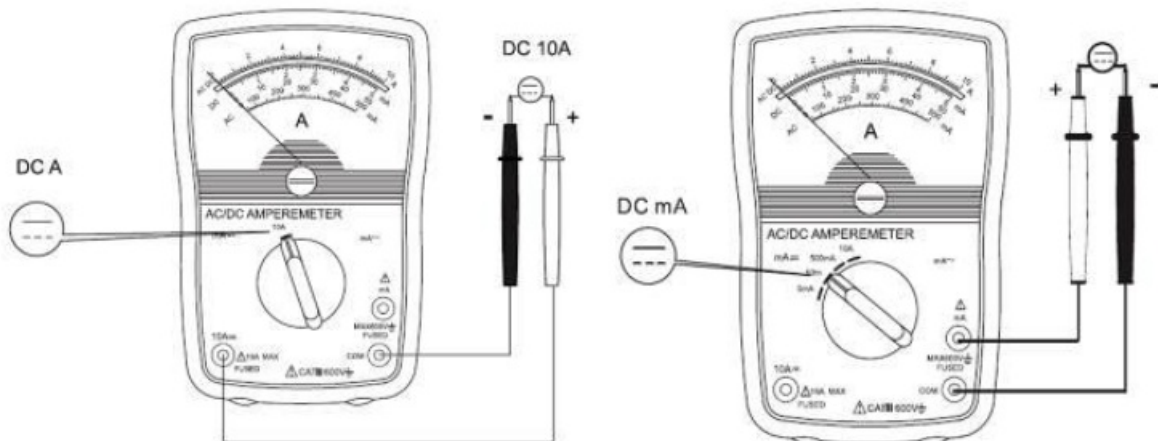
Measuring Procedure

DC Current Measurements

Note

Always start with the highest measuring range.

1. Choose with the rotary switch the 5mA / 50mA / 500 mA resp. 10A position.
2. Insert the black test lead into the COM socket and for current measurements < 500mA the mA-socket. For current measurements > 500mA use the 10A input socket.
3. Switch OFF or disconnect the circuit to be measured from all power sources and connect the multimeter in series with the conductor in which the current to be measured flows.
4. Switch ON the circuit and read the measured value from the analogue display.



WARNING!

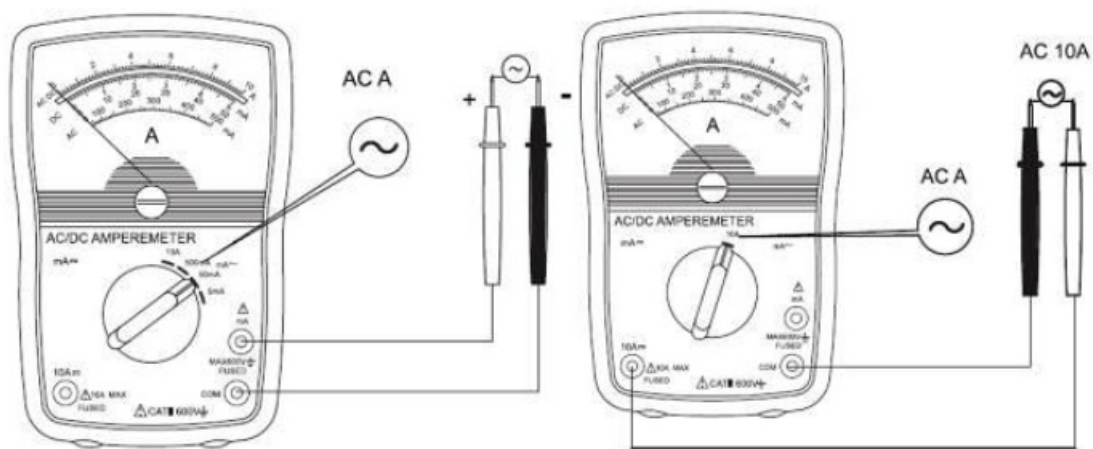
- This unit is equipped with a 0.5 amp fuse for ranges < 500mA and a 10 amp fuse for the 10 A range.
- To prevent a risk of damage to the device and/or serious injury, note maximum input values.

AC Current Measurements

Note

Always start with the highest measuring range.

1. Choose with the rotary switch the 5mA / 50mA / 500 mA resp. 10A position.
2. Insert the black test lead into the COM socket and for current measurements < 500mA the mA-socket. For current measurements > 500mA use the 10A input socket.
3. Switch OFF or disconnect the circuit to be measured from all power sources and connect the multimeter in series with the conductor in which the current to be measured flows.
4. Switch ON the circuit and read the measured value from the analogue display.



WARNING!

- This unit is equipped with a 0.5 amp fuse for ranges < 500mA and a 10 amp fuse for the 10 A range.
- To prevent a risk of damage to the device and/or serious injury, note maximum input values.

Replacement of the fuse

WARNING!

To avoid electric shock, disconnect all the test probes before removing the fuse. Replace only with the same type of fuse. Not note remove the top cover. Service should be performed only by qualified personnel.

CAUTION!

For continued protection against fire or other hazard, replace only with fuse of the specified voltage and current ratings.

Follow these steps to replace the fuse:

1. Disconnect all the test probes.
2. Remove the protecting holster and then remove the back cover by unscrewing the four screws and pulling off the meter's cover.
3. Remove the blown fuse.

4. Install the new fuse in the fuse compartment with same type and dimensions.
5. Replace the cover and secure it with the screws.

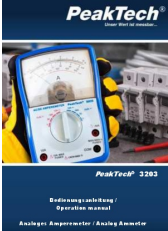
Specifications of fuse

- 0,5 A / 500 V FF; 6,3x32mm
- 10 A / 500 V FF; 6,3x32mm

WARNING!

Do not operate your meter until the back cover is in place and fully closed .All rights, also for translation, reprinting and copy of this manual or parts are reserved. Reproduction of all kinds (photocopy, microfilm or other) only by written permission of the publisher. This manual considers the latest technical knowing. Technical changings which are in the interest of progress reserved. We herewith confirm, that the units are calibrated by the factory according to the specifications as per the technical specifications. We recommend to calibrate the unit again, after one year.

Documents / Resources

 The image shows the front of a PeakTech 3203 Analog Ammeter. It has a blue and yellow casing. The face is white with a large circular scale and a needle. There are two sets of terminals on the right side. The text 'PeakTech 3203' is visible at the top of the face, and 'Bedienungsanleitung / Operating manual' is at the bottom.	<p>PeakTech 3203 Analog Ammeter [pdf] Instruction Manual 3203 Analog Ammeter, 3203, Analog Ammeter, Ammeter</p>
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References

- [P Home](#)
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