PeakTech 3202 Analog Measuring Instrument User Manual

Contents

PeakTech®

PeakTech 3202 Analog Measuring Instrument

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.
- Use caution when working with voltages above 35V DC or 25V AC. These Voltages pose shock hazard.
- 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.
- Always start with the highest measuring range when measuring unknown values.
- The measurement instrument is not to be to 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 â€“ 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 mid 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:** DCV: 100mV ~ 500V in 6 ranges
    - **ACV:** 10 V ~ 500V in 4 ranges
- Overload protection for each range
- Application: Education, Maintenance, Production line, School, Laboratory, Industrial and Quality control.

Specifications

General specifications

Display	Analogue display
overload protection	0,5 A / 500V; 6,3x32mm
operation temperature	0°C to +40°C; < 75% RH
storage temperature	-10°C to +50°C; < 70% RH
dimensions (WxHxD)	105 x 150 x 45 mm
weight	300g

Technical specifications

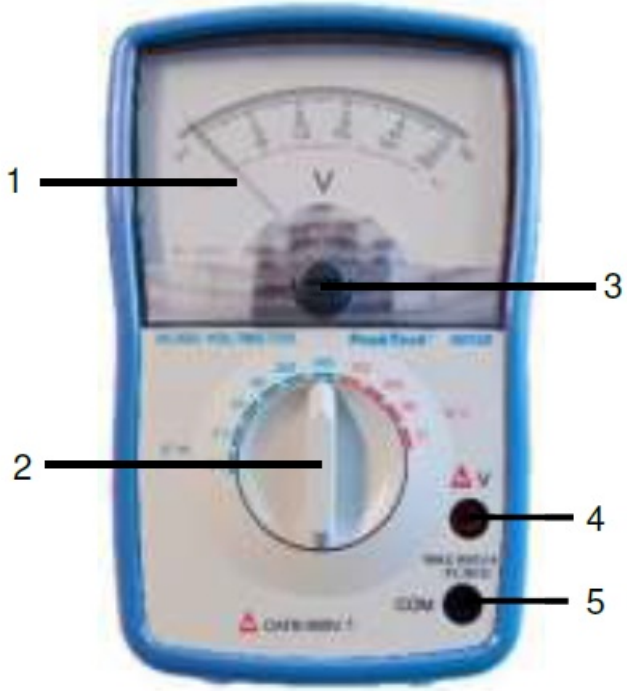
DCV (Direct Current)

Range	Accuracy	Input Resistance
0,1 V	+/- 5,0 % full scale	20 kW / V
2,5 V	+/- 3,0 % full scale	
10 V		
50 V		
250 V		
500 V		

ACV (Alternating Current)

Range	Accuracy	Input Resistance	Frequency-Range
10 V	+/- 4,0 % full scale	9 kW / V	50 ~ 400kHz
50 V			
250 V			
500 V			50 ~ 60 Hz

Front Panel Description



1. Display
2. Range Switch

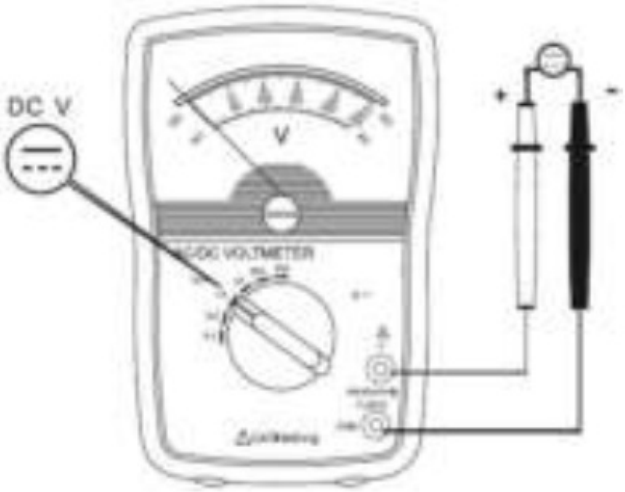
3. Zero Adjust of pointer
4. Input Terminal V
5. Input Terminal COM

Measuring Procedure

DC V (DC Voltage Measurements)

Note:
Always start with the highest measuring range.

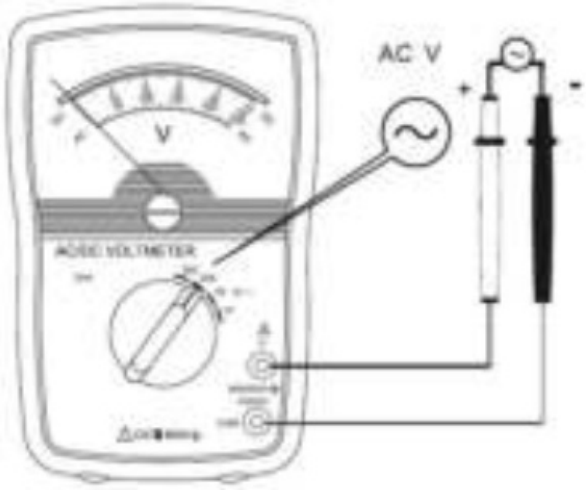
1. Select with the rotary switch the corresponding measuring range (0,1V ~500V DCV).
2. Insert the black test lead into the “COM” socket and the red test lead into the “V” socket.
3. Connect the test leads in parallel to the circuit/component to be measured.
4. Read the measured value from the analogue display.



AC V (AC Voltage Measurements)

Note:
Always start with the highest measuring range.

1. Select with the rotary switch the corresponding measuring range (10V ~500V ACV).
2. Insert the black test lead into the “COM” socket and the red test lead into the “V” socket.
3. Connect the test leads in parallel to the circuit/component to be measured.
4. Read the measured value from the analogue display.



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

WARNING!
Do not operate your meter until the back cover is in place and fully closed.

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Documents / Resources

	PeakTech 3202 Analog Measuring Instrument [pdf] User Manual 3202, Analog Measuring Instrument, Measuring Instrument, Analog Instrument, Instrument, Analog Voltmeter, Voltmeter

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