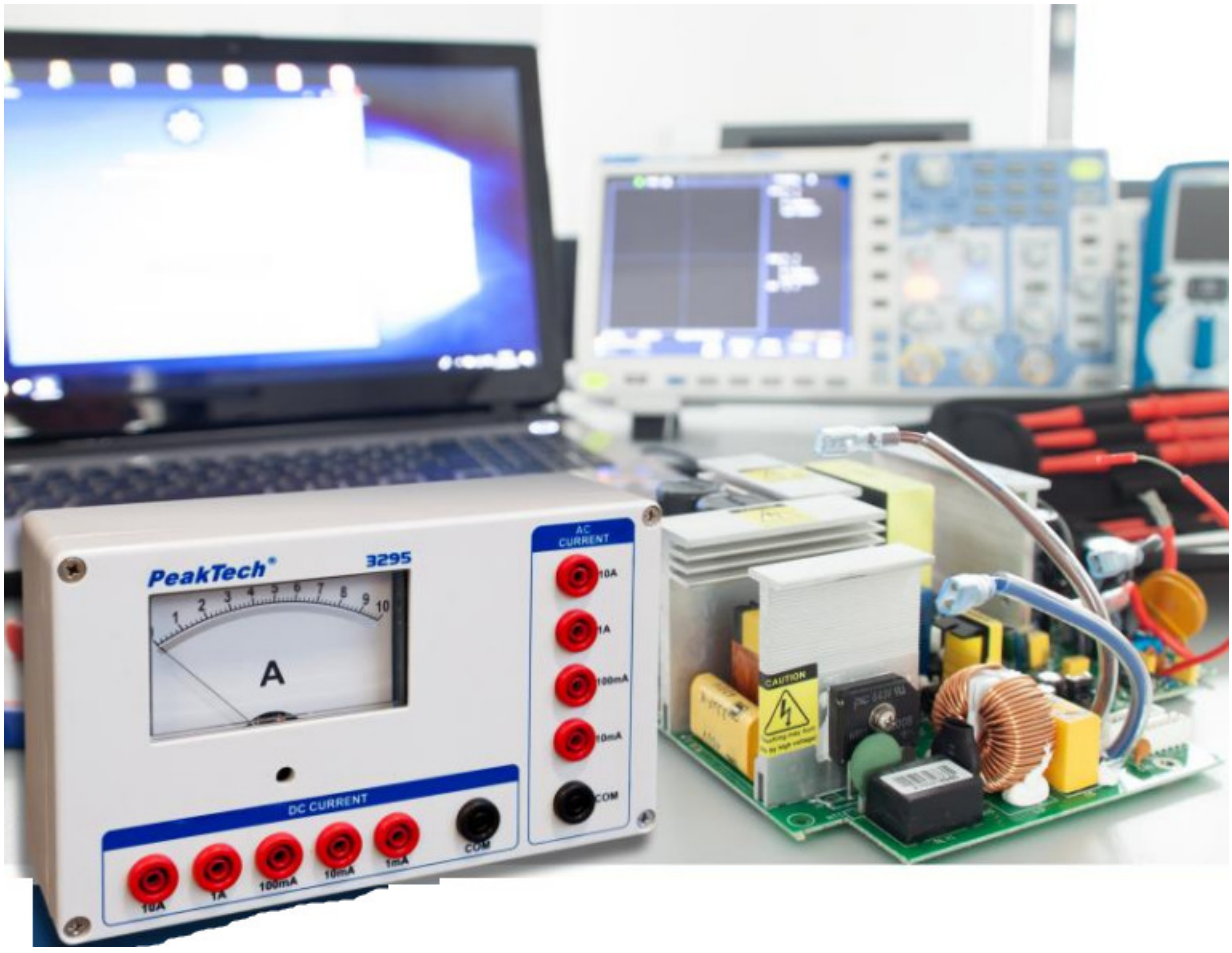
PeakTech 3295 Analog Ammeter User Manual

PeakTech®

3295 Analog Ammeter
User Manual



PeakTech® 3295

Contents

Safety Precautions

This product complies with the requirements of the following directives of the European Union for CE conformity: 2014/30/EU (electromagnetic compatibility), 2011/65/EU (RoHS).
Pollution degree 2.
To ensure safe operation of the equipment, the following safety precautions must be observed.
Damages resulting from failure to observe these safety precautions are exempt from any legal claims.

- Do not place water-filled containers on the equipment (danger of short-circuit in case of knock over of the container).
- Do not operate the equipment near strong magnetic fields (motors, transformers, etc.).
- Do not operate the meter before the cabinet has been closed.
- Check instruments and accessories for any damages.
- Comply with the warning labels and other info on the equipment.
- Do not subject the equipment to direct sunlight or extreme temperatures, humidity, or dampness.
- Do not subject the equipment to shocks or strong vibrations.
- Keep hot soldering irons or guns away from the equipment.
- Allow the equipment to stabilize at room temperature before taking up measurements (important for exact measurements).
- The meter is suitable for indoor use only
- Do not store the meter in a place of explosive, inflammable substances.
- Do not modify the equipment in any way.
- Opening the equipment and service – and repair work must only be performed by qualified service personnel
- Measuring instruments don’t belong to children’s hands.

Cleaning the cabinet

Clean only with a damp, soft cloth and a commercially available mild household cleanser. Ensure that no water gets inside the equipment to prevent possible shorts and damage to the equipment.

Meaning of the symbol 

CAUTION! Please consult the operating instructions before using the device. In these operating instructions, failure to follow or carry out instructions preceded by this symbol may result in personal injury or damage to the device and the installations.

Meaning of the symbol 

This appliance is protected by double insulation or reinforced insulation. It does not have to be connected to an earth protection terminal for electrical safety.
To obtain the best service from your unit:

-  Read these operating instructions carefully,
-  Comply with the precautions for use.

 Precautions for Use

- Never use on a voltage network over 30Vpp with respect to the earth connection.
  This voltage surge category I ammeter complies with stringent reliability and availability requirements, corresponding to fixed industrial and domestic installations (see IEC 664-1).
- Do not use on alternate and continuous voltages > 30Vpp.
- Indoor use in environments with a maximum pollution level of 2 (EN 50419:2006), a temperature of -10 °C to +50 °C, and relative humidity below 90%.
- Respect the value and type of the fuses to avoid damaging the instrument and canceling the warranty.
- Once an AC overload occurs, the thermal fuse can cut off the circuit. The fuse function can then be restored after 1 minute by opening the circuit manually.
- Use accessories corresponding to safety standards (EN 61010-1:2001) with 30V min. voltage ratings and surge category I.
- Before any measurement, ensure the correct positioning of the leads on the ammeter. When the value of a measurement is not known, gradually reduce it until the appropriate range is achieved: the reading should preferably be in the upper 2/3 of the full-scale deflection.
- During current measurements, stop the circuit power supply before connecting or disconnecting the ammeter or changing the range.
- The leads must be disconnected to open the lower half of the meter case.
- Never connect to the circuit to be measured if the casing is not properly closed.

Features

- Analog mirror scale
- Robust plastic housing
- DC and AC current measurements
- No batteries required

Accessories

- Operation manual

Description

This ammeter was developed for everyday use by electricity professionals and persons acquainted with electricity. It offers the following functions:
Amperage measurement (ADC and AAC)

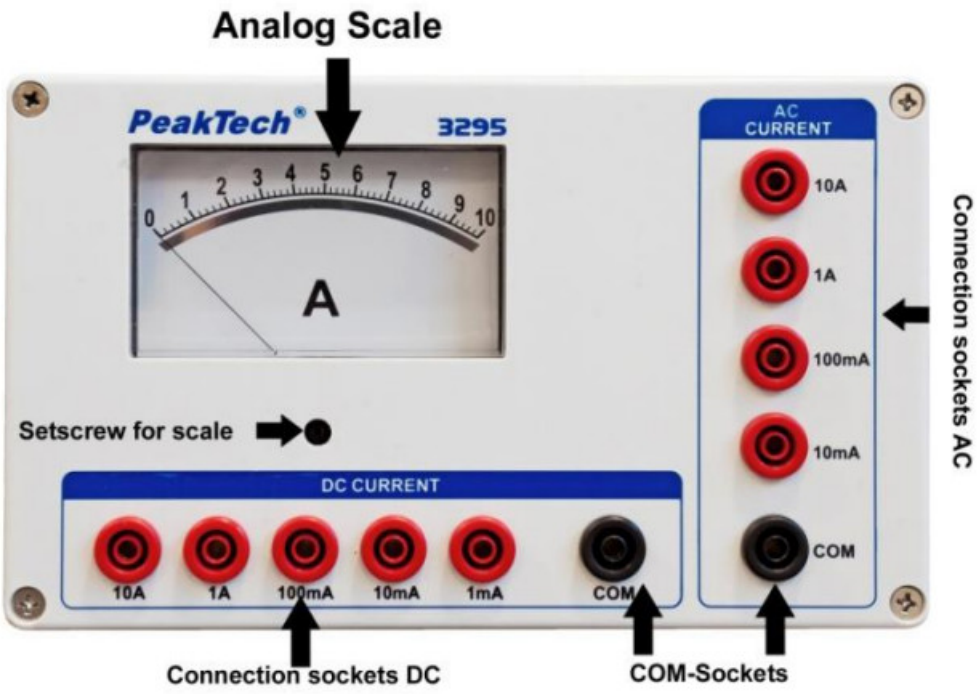
Safety Terminals, Ø4mm

- COM – Common terminals for AAC and ADC, respectively
- 10mA, 100mA, 1A – Terminals for AAC Ranges, 1mA, 10mA, 100mA, 1A – for ADC Ranges
- 10A for the 10A Range (DC/AC)

Analogue Scale

One linear black scale, with an anti-parallax mirror, for ADC & AAC.

Function Selection



Reference Conditions

Temperature:	23°C ± 2°C
Humidity:	45% RH ± 5%
Position:	horizontal ± 2°

Ensure that the pointer is at zero before starting any measurements. Mechanical zero adjustments is carried out by turning the screw on the front of the ammeter.

When an estimated current value is unknown, start measurement at the highest range, and then gradually reduce it until the appropriate range is achieved: the reading should preferably be in the upper 2/3 of the full-scale deflection.

Specifications

DC Current

A-DC	Scale	coefficient	Voltage Drop at Inputs	Accuracy	Protection
1mA	10	x10	200mV	2.0% of F.S. Melting	PTC
10mA	10	x j	250mV		PTC
100mA	10	x0.1	250mV		PTC
1A	10	x10	250mV		PTC
10A	10	x1	250mV		fuse

 Do not use input AAC input jacks on unprotected power transformers.

AC Current (Sine Wave)

A-AC	Scale	coefficient	Voltage Drop at Inputs	Accuracy	Protection
10mA	10	x1	5V	3.0% of F.S.	PTC
100mA	10	x0.1	500mV		PTC
1A	10	x10	50mV		PTC
10A	10	x1	50mV		PTC

General Characteristics

Dimensions and Weight

Dimensions:	200×120×55 mm
Weight:	600 g

Maximum Climatic Conditions

Temperature (use):	-0°C to +40°C
Temperature (storage):	-20°C to +50°C
Relative humidity (use):	≤80% RH
Altitude (use):	<2000m

Compliance with International Standards

Electrical safety (EN 61010-1 -2001)
CEI 1010-1 EN61010 NF-C 42020 VDE 0411

- Double insulation: 
- Pollution level: 2
- Installation category: I according to CEI 664
- Maximum voltage: 30V

Electromagnetic Compatibility

- EN 61326-1:2013
- EN 61326-2-2:2013

Warranty

Our warranty lasts three years for the ammeter after the delivery date.

Maintenance

Only use the specified spare parts for maintenance. The manufacturer shall not be held liable for any incident occurring following repairs carried out by a party other than its after-sales service or approved repairers.
Fuse Change
Open the device. Use the same type of fuses to ensure the safety of users and of the device.

This manual is according to the latest technical knowledge. Technical alterations reserved.
We herewith confirm that the units are calibrated by the factory according to the specifications as per the technical specifications. We recommend calibrating the unit again, after 1 year.

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Documents / Resources

	PeakTech 3295 Analog Ammeter [pdf] User Manual 3295 Analog Ammeter, 3295, Analog Ammeter, Ammeter

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