PeakTech 3432 Fuse Finder with Transmitter Instruction Manual

Contents

PeakTech

IMPORTANT INSTRUCTION

Safety precautions

This product complies with the requirements of the following European Union Directives for CE conformity: 2014/30/EU (Electromagnetic Compatibility), 2014/35/EU (Low Voltage), 2011/65/EU (RoHS). Overvoltage category CAT III 250V; Pollution degree 2.

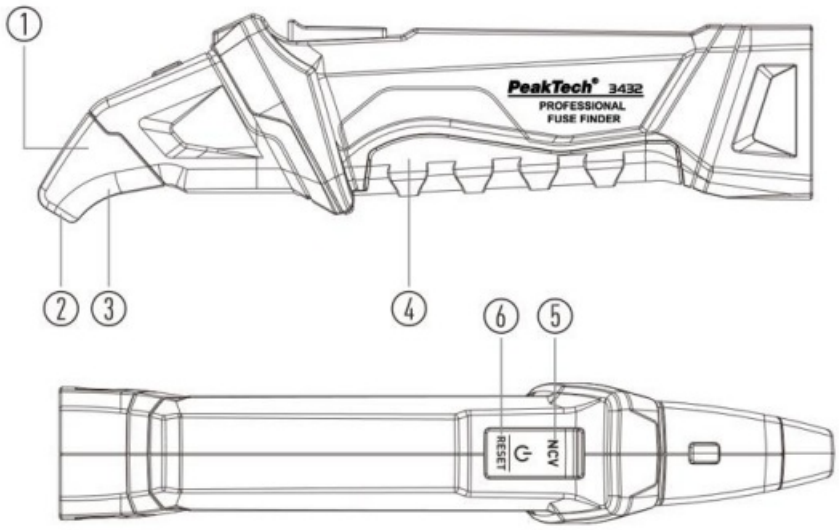
- CAT I: For signal level, telecommunication, electronic with small transient overvoltage
- CAT II: For local level, appliances, main wall outlets, portable equipment
- CAT III: Distribution level, fixed installation, with smaller transient overvoltages than CAT IV.
- CAT IV: Units and installations, which are supplied overhead lines, which are stand in risk of persuading of lightning, i.e. main-switches on current input, overvoltage-diverter, current use counter.
- To ensure the operational safety of the unit and to avoid serious injuries due to current or voltage surges or short circuits, the following safety instructions for operating the unit must be observed.
- Damage caused by non-observance of these instructions is excluded from claims of any kind This unit must not be used in high-energy circuits
- Use only a 9V battery as a power supply
- Do not exceed the maximum permissible input values under any circumstances (serious risk of injury and/or destruction of the unit)
- Never operate the unit if it is not fully closed
- Check the unit and other accessories for possible damage or bare or bent cables and wires before putting them into operation. If in doubt, do not take measurements
- Carry out measuring work only in dry clothing and preferably in rubber shoes or on an insulating mat.
- Observe the warnings on the unit
- Do not expose the unit to extreme temperatures, direct sunlight, extreme humidity or moisture
- Avoid strong vibrations
- Do not operate the unit in the vicinity of strong magnetic fields (motors, transformers, etc.)
- Only qualified service technicians may open the unit and carry out maintenance and repair work
- Do not make any technical modifications to the unit Cleaning the device
- Clean the appliance only with a damp, lint-free cloth. Only use commercially available washing liquid. When cleaning, make absolutely sure that no liquid gets into the inside of the unit.
- This could cause a short circuit and destroy the appliance

Warnings and symbols on the device

Introduction

The PeakTech 3432 is a measuring device with which it is possible to detect fuses in a circuit. It consists of a combination of a transmitter and a receiver. The transmitter is used as a signal generator and the receiver is used to locate the fuse in the fuse box. Furthermore, it is possible to determine voltages with the receiver with the NCV detector. RCD tests can be carried out with the transmitter by plugging the unit into a socket and pressing the RCD test button. Its features make finding fuses with the PeakTech 3432 an easy task in any application, making it an ideal companion for the electronics technician as well as the layperson to find the right fuse and safely turn off the circuit.

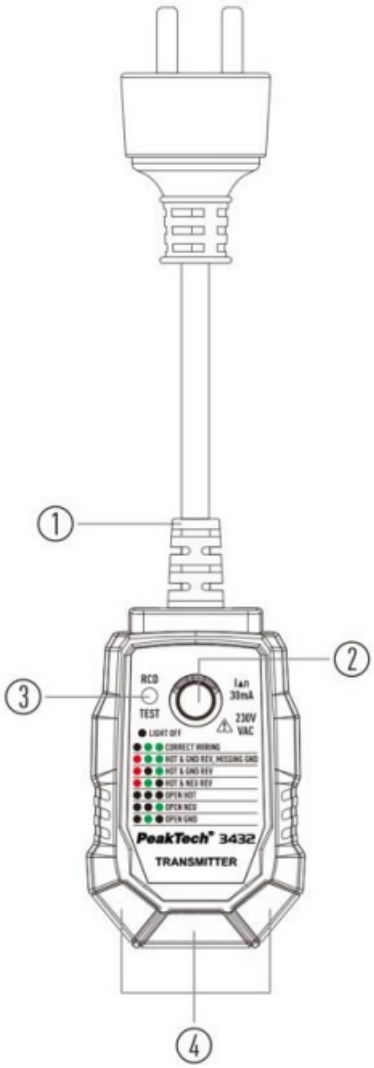
Controls



Receiver

1. NCV Signal indicator
2. NCV Testing unit
3. Housing of the measuring unit
4. Battery compartment
5. NCV button (for contactless voltage testing)
6. On / Off button / Reset button

Transmitter



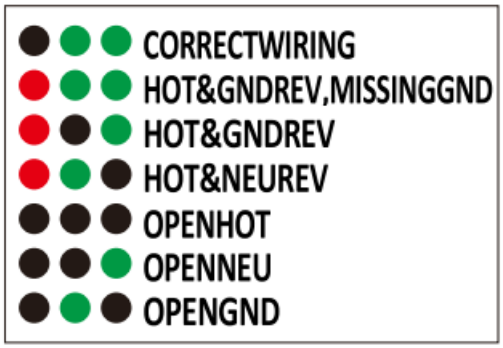
1. Connector with plug
2. Test button for RCD testing
3. LED for RCD test
4. LED display of plug polarity

Operation of the fuse finder

The PeakTech 3432 is used to locate fuses. The exact procedure for carrying out the measurement is explained in the following sections.

Connecting the Transmitter

The transmitter is needed when locating the fuse, as the device sends a signal to the line to be measured. When the unit is plugged into a socket, LED lights in the lower part of the unit indicate the wiring status. When the middle and right LEDs light up, the plug is correctly inserted into the socket and you are able to carry out the measurement. The figure below (Fig. 1) shows which states can be assumed and indicated by the LEDs.



Description

- Hot&Grndrev: Phase and earth reversed
- Missinggnd: Missing earth
- Hot&Neurev: Phase and neutral conductor reversed
- Open hot: Phase not present
- Open neu: Neutral conductor not present
- Open gnd: Earth not present

Note: Always make sure that the transmitter is connected correctly and that the two “correct wiring” lights are displayed before starting the measurement. If this is not the case, check the connection of the meter again.

Fuse detection

- To find fuses in the power distribution to be measured, the transmitter must be connected to a socket as described in point
- After properly connecting the transmitter, you can now use the receiver to detect the fuse for the connected circuit.
- To do this, switch on the receiver by pressing the on/off button.
- After switching on, the measuring tip of the device lights up green, and a repeating tone sounds.
- After switching on the unit, hold the receiver perpendicular to the fuses in the distribution box and slowly pass it over all the fuses.
- When the receiver approaches the fuse to be detected, the beep tone changes, becoming faster the closer it gets to the fuse.
- When the correct fuse is detected by the receiver, the red LED on the receiver will turn solid red and the beep sound will be continuous.
- After determining the fuse for the circuit to be disconnected, remove the transmitter from the socket.

Note: After the fuse has been detected and switched off, always check that the line/socket is voltage-free. Do not work on live cables!

Non-contact voltage test

With the receiver it is possible to find live cables and devices without contact. For this function, when the unit is switched on, the upper part of the red button on the NCV (Non-Contact Voltage) is pressed continuously. Move the receiver along the devices or lines to be determined to find out whether they are live. When the red LED in the measuring unit lights up and a clearly audible beep sounds, the magnetic field of a live line has been detected. It

is not possible to use the voltage test to detect fuses.

RCD Test

Another function of the PeakTech 3432 is to test the RCD in a circuit. Only the transmitter is needed for this application. To check that the RCD in a circuit is tripping, the transmitter is plugged into a socket which is connected to the RCD. When plugging the transmitter into a socket, the correct polarity of the plug must be observed. This is indicated by the lower LED lights of the transmitter. After plugging the transmitter in, press the red button on the transmitter to test whether the RCD trips. When the RCD trips, the red RCD Test LED lights up briefly. The indicator LEDs in the lower part of the transmitter also switch off after the RCD has tripped. Important: If the transmitter is not properly plugged into the socket, as indicated by the LED display in the lower section, the RCD to be tested will not trip.

Inserting the battery

The receiver of the P 3432 is powered by a 9 V block battery. The transmitter does not need a battery as a power source, as it is powered by the mains voltage of the socket in which it is plugged in. The battery compartment of the receiver is located in the handpiece of the unit. To insert the battery, unscrew the screw of the battery compartment. After opening the battery compartment, the 9 V battery can be connected to the device. When closing the battery compartment, make sure that the cables of the battery connection are not squeezed. Finally, the screw of the battery compartment must be tightened again, that the measurement with the PeakTech 3432 can start.

Specifications

Notification about the Battery Regulations

The delivery of many devices includes batteries, which for example serve to operate the remote control. There also could be batteries or accumulators built into the device itself. In connection with the sale of these batteries or accumulators, we are obliged under the Battery Regulations to notify our customers of the following: Please dispose of old batteries at a council collection point or return them to a local shop at no cost. The disposal in domestic refuse is strictly forbidden according to the Battery Regulations. You can return used batteries obtained from us at no charge at the address on the last side in this manual or by posting with sufficient stamps. Contaminated batteries shall be marked with a symbol consisting of a crossed-out refuse bin and the chemical symbol (Cd, Hg or Pb) of the heavy metal which is responsible for the classification as a pollutant:

1. “Cd” means cadmium.
2. “Hg” means mercury.
3. “Pb” stands for lead.

NEED HELP

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Documents / Resources

	PeakTech 3432 Fuse Finder with Transmitter [pdf] Instruction Manual 3432 Fuse Finder with Transmitter, 3432, Fuse Finder with Transmitter, Transmitter

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