



SEALEY AK1998.V3 Non Contact Voltage Detector Instruction Manual

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SEALEY AK1998.V3 Non Contact Voltage Detector



Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to
instruction
manual



Wear protective
gloves



Wear protective
clothing



Indoor use only

Product Information

The 80-1000V Non-Contact Voltage Detector, Model No: AK1998.V3, is a high-quality product manufactured by Sealey. It is designed to detect the presence of voltage without direct contact, ensuring user safety during electrical work. This voltage detector is suitable for use in an industrial setting and comes with safety precautions to be followed for accurate measurement and reliable performance.

Key Features:

- Non-contact voltage detection
- **Wide voltage range:** 80-1000V
- Single pole detection
- Indication through light and buzzer
- Tactile barrier for safe handling

Important Safety Instructions:

- Ensure compliance with Health and Safety, local authority, and general workshop practice regulations.
- This instrument should only be used by competent persons who are knowledgeable and trained in measuring voltage risks and safety precautions.
- Read and understand all instructions and safety information provided in the manual before operating or servicing the tool.
- Do not use the voltage detector if it is wet or damaged.
- Operate the unit with the case closed.
- Use the tester as specified to maintain the protection provided by the voltage detector.
- Do not rely solely on the voltage detector to determine if a circuit is hazardous. Use a volt meter or a 2-pole voltage detector for confirmation.
- If the light/buzzer fails to operate, do not use the unit.
- Avoid exposing the unit to extreme temperatures or high humidity.
- Test the voltage tester on a known voltage before and after each repair to ensure proper functioning.
- The detector may not provide indication of live voltages if the field strength is low or influenced by factors like shielded wires, insulation, distance from the voltage source, etc.
- Hold the tester behind the tactile barrier for added safety.
- Any detected faults should be rectified by a qualified electrician.
- Exercise caution with voltages above 30V AC as a shock hazard may exist.

- The AK1998.V3 will not detect voltages in cables connected to a center tapped earth supply, such as a 110V transformer or generator.

By following these safety instructions and using the voltage detector correctly, you can ensure accurate measurements and prevent damage or personal injury.

SAFETY

- **WARNING!** Ensure Health and Safety, local authority and general workshop practice regulations are adhered to when using tools.
- **NOTE: FOR USE BY COMPETENT PERSONS** Anyone using this instrument should be knowledgeable and trained about the risks involved with measuring voltage, especially in an industrial setting, and the importance of taking safety precautions and of testing the instrument before and after using it to ensure that it is in good working condition.
- Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.
- DO NOT use the unit if it is wet or damaged.
- DO NOT operate with the case open.
- Only use the tester as specified, or the protection supplied by the voltage detector can be compromised.
- DO NOT rely on the voltage detector to detect the presence or absence of voltage on a conductor for safety purposes. A single pole noncontact voltage detector such as this product is not suitable to determine if a circuit is hazardous. A volt meter or 2-pole voltage detector is necessary to confirm the absence of hazardous voltage prior to commencing work.
- DO NOT use if the light/buzzer fails to operate.
- DO NOT expose the unit to extremes in temperature or high humidity. Refer to 'Specifications' as failure to observe these precautions may result in severe injury and can damage the tester.
- Test on a known voltage first to make sure that the voltage tester operates correctly. This should be done both before and after each repair.
- **NOTE:** When using the voltage detector if tip does not glow, voltage could still be present. The detector indicates active voltage in the presence of electric fields of sufficient strength generated from the source mains voltage. If the field strength is low, the detector may not provide indication of live voltages. Lack of an indication occurs if the detector is unable to sense the presence of voltage, which may be influenced by several factors such as shielded wire and cables, thickness and type of insulation, distance from the voltage source, condition of the detector and batteries.
- Hold the tester behind the tactile barrier.
- Always have detected faults to be rectified by a qualified electrician.
- **CAUTION** with voltages above 30V AC as a shock hazard may exist.
- **WARNING!** The AK1998.V3 will not detect voltages in cables connected to a centre tapped earth supply e.g. 110V transformer or generator.

INTRODUCTION

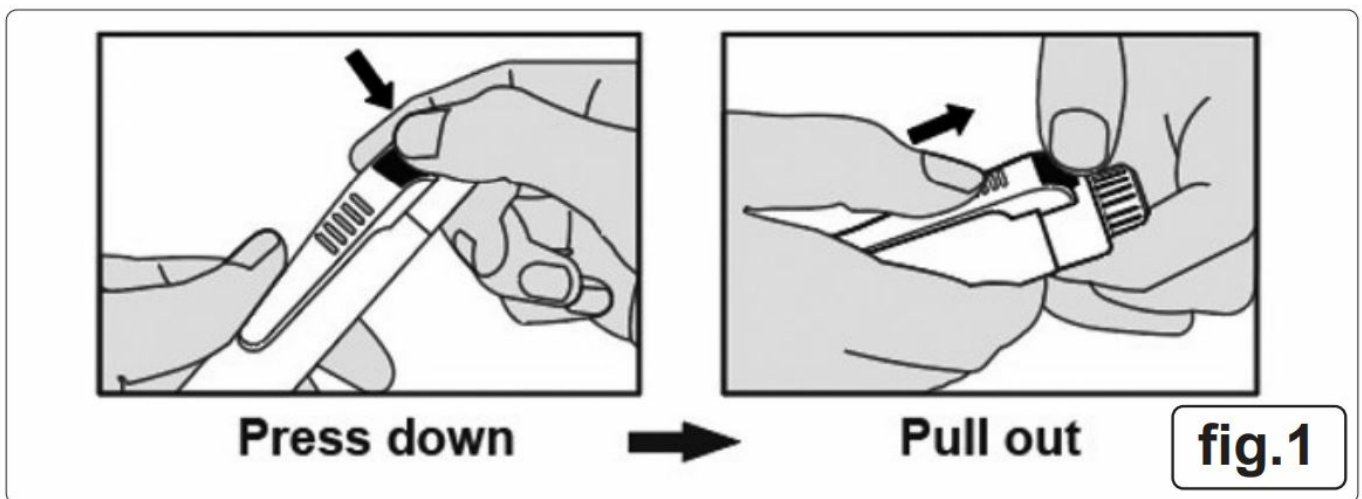
Non-contact voltage detector with LED/audible indication. Designed for quickly identifying wire and cable breaks as well as detecting voltage in fuses, cables, switches, outlets, lighting fixtures and many more. Features two selectable sensitive settings low gear (L) and high gear (H) detecting voltage ranges from 80V – 1000V. Requires

2 x AAA batteries (not included).

SPECIFICATION

- **Model No:**..... AK1998.V3
- **Altitude:**..... up to 2000m
- **Dimensions:**.....26 x 22 x 160mm
- **Display:**.....Red LED
- **Frequency:**.....50-60Hz
- **Overvoltage Category:**.....CATIII
- **Operating Temperature:**.....0°C to +40°C at RH <80%
- **Voltage Range:**.....80-1000V

BATTERY REPLACEMENT

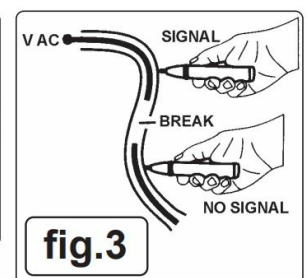


Battery removal see fig.1.

NOTE: The direction of how the batteries are to be installed is embossed on the side of the voltage detector.

OPERATION

1. With the batteries installed (see section 4), turn the unit on by rotating the switch to choose high or low voltage sensitivity. The green LED will flash once and the audible output will beep once when “High V” or “Low V” is selected. This indicates the batteries are functioning correctly.
2. Bring the probe (fig.2) in close proximity to the conductor, the red LED and audio output will indicate the presence of an AC supply voltage within the range stated in the specifications. To determine magnitude and or frequency an appropriate metering device is required.



3. Insulated cores may be checked for continuity breaks (fig.3).

NOTE: Each core must be individually connected to a detectable voltage.

4. Electrical sockets (80V – 220V) can be checked by placing the probe tip into socket terminal aperture.
5. **NOTE:** Wait until the LED and the audible output finishes before proceeding with the next operation. Using this device near equipment that generates electromagnetic interference may result in inaccurate indications.

MAINTENANCE

- Periodically wipe the casing with a damp cloth DO NOT use abrasives or solvents.

ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

Important: No Liability is accepted for incorrect use of this product.


Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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Documents / Resources

	<p>SEALEY AK1998.V3 Non Contact Voltage Detector [pdf] Instruction Manual AK1998.V3 Non Contact Voltage Detector, AK1998.V3, Non Contact Voltage Detector, Contact Voltage Detector, Voltage Detector, Detector</p>
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References

-  [Sealey - Leading Professional Tool & Workshop Equipment Supplier](#)

Manuals+.