

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, AND CAUTIONS. USE THIS PRODUCT CORRECTLY, AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE, OR PERSONAL INJURY, AND WILL INVALIDATE THE WARRANTY.**

## 1. SAFETY INSTRUCTIONS

1.1. When using the detector refer to the following:

- 1.1.1. For use only within the operating range specified in Section 3.
- 1.1.2. **DO NOT** expose the unit to extreme temperature or high humidity. Refer Section 3. Recommended for use indoors.
- 1.1.3. Before use confirm that the detector casing is undamaged, **DO NOT** use if any fault is found or if wet.
- 1.1.4. Before use check the operation of the detector by "testing" a known live cable
- 1.1.5. **Do not** use the detector for any purpose other than for which it is designed.
- 1.1.6. Always have detected faults to be rectified by a qualified electrician.
- 1.1.7. After rectification check the detector as in 1.1.4. **IMPORTANT**
- 1.1.8. **DO NOT rectify any fault until the supply fuse/circuit breaker has been removed/opened.**

**IMPORTANT! The AK1998.V2 will not detect voltages in cables connected to a centre tapped earth supply e.g. 110V transformer or generator.**

## 2. INTRODUCTION

The AK1998.V2 is designed for testing insulated conductors for the presence of AC voltages. No electrical connection to the conductor under test; live, neutral or earth, is required. Maintenance free powered by two 1.5V batteries.

## 3. SPECIFICATION

### Specifications:

Dimensions: 26mm Diameter (approx.) x 160mm.  
 Display: Green & Red LED,s.  
 Power Supply: 2 x AAA Batteries.  
 Static Current: Not more than 5mA.  
 Dynamic Current: Not more than 35mA.  
 Power-off Current: Not more than 5uA  
 Recommended use: Indoor.  
 Operating Voltage Range: 80-1000vac.  
 High Voltage Range: 220V and above.  
 Low Voltage Range: 80V  
 Frequency Range: 50/60Hz.  
 Over-voltage Category: CATIII, 1000V.  
 Insulation Protection Level: IP40.  
 Output: Flashing: LED + Audio Signal.  
 Operating Ambient Temperature: 0° to 40°C @ RH<95%.  
 Storage Temperature: -20°C to 40°C  
 Working Ambient Humidity: <95%.  
 Altitude: <2000m.

## 4. OPERATION

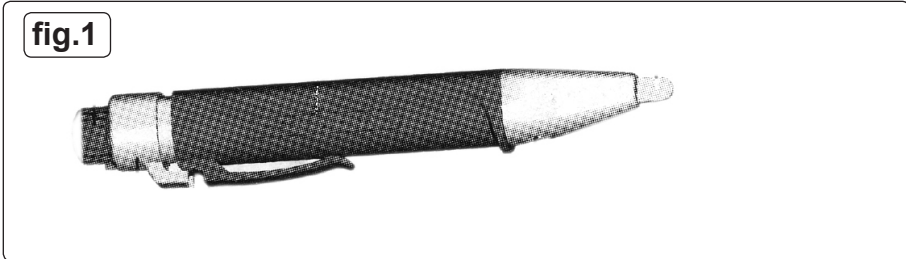
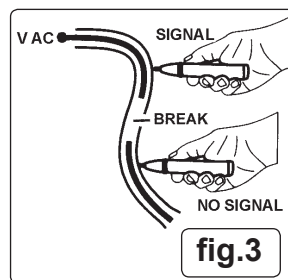
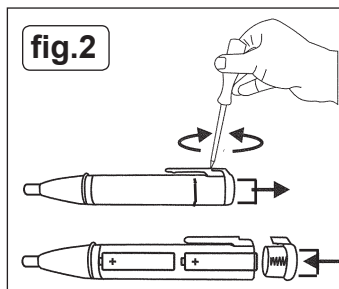
- 4.1 With the batteries installed (see section 5), turn the unit on by rotating the switch to choose high or voltage sensitivity. The green LED will flash once and the audible output beep once when "High V" or "Low V" is selected. This indicates the batteries are functioning correctly.
- 4.2 Bring the probe (fig.1) 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.
- 4.3 Insulated cores may be checked for continuity breaks (fig.3).  
**Nb! Each core must be individually connected to a detectable voltage.**
- 4.4 Electrical sockets (80V - 220V) can be checked by placing the probe tip into socket terminal aperture.  
**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.

## 5. BATTERIES

- 5.1 For removal use a small screwdriver to lift probe casing cap.
- 5.2 Install batteries with polarity as shown in fig.2 and replace cap, pressing it home until it latches.
- 5.3 For disposal see notes below (Environmental Protection).

## 6. CLEANING

- 6.1 Periodically wipe the casing with a damp cloth and mild detergent. **DO NOT** use abrasives or solvents.



### Environmental Protection.



Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycle centre and disposed of in a manner which is compatible with the environment.



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.

**ONLY** dispose of batteries or recycle according to local authority regulations. Under the Waste Batteries and Accumulators Regulations 2009, Jack Sealey Ltd. are required to inform potential purchasers of products containing batteries (as defined within these regulations), that they are registered with Valpak's registered compliance scheme. Jack Sealey Ltd's Batteries Producer Registration Number (BPRN) is BPRN00705.

**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 will be required for any claim.

**INFORMATION:** For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.

