

ARCTIC
HAYES

ATEX VOLTAGE DETECTOR

NON-CONTACT

User Manual



AHATEX12

Before using the instrument, please read this manual carefully, and save for future reference.

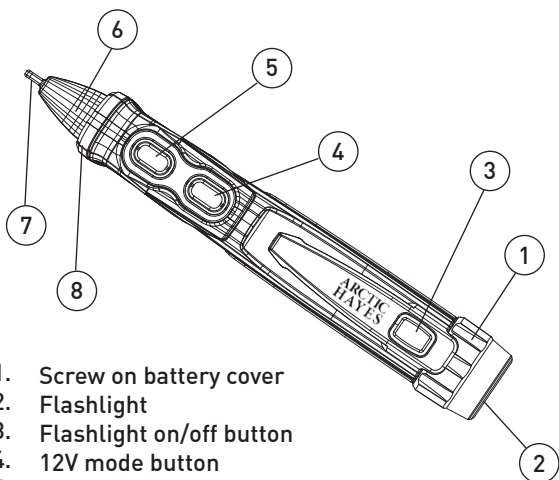
Warning.

Read all instructions before using the appliance and retain for future reference.

- Please follow all safety operation instructions.
- Test using a known live source in the AC voltage range to confirm the detector is working properly before use.
- Use caution with voltages above 30VAC as a shock hazard may exist.
- Insulation type and thickness and other factors may effect the operation, use other methods to verify live voltages if there is any uncertainty.
- Do not use the product for any purpose other than that for which it is designed.
- Turn the detector off when not in use to save the battery.
- Remove the battery if the detector is not to be used for long periods.
- Replace the battery as soon as the low battery warning appears to avoid possible electric shock or personal injury caused by incorrect readings.

Conforms to:  **|| 2 G Ex ib op is ||B T4 Gb**
Certificate Number: Presafe 17 ATEX 9668X

Physical Appearance



1. Screw on battery cover
2. Flashlight
3. Flashlight on/off button
4. 12V mode button
5. Detector on/off button
6. LED indicators
7. Detector tip
8. Worklight

Height - 156mm
Width - 42mm
Length - 20mm

Weight - 47g (without
batteries)

- **Turning the Detector on:** Momentarily press the detector On/Off button (5). The sounder will beep once and the green LED will illuminate to indicate that the detector is on and ready for use.
- **Turning the Detector off:** Momentarily press the On/Off button. The detector will beep twice and the green LED will turn off.
- **Turning the sounder / vibrate off:** With the detector off, press and hold the On/Off button until the green LED is illuminated. The detector will now operate without sound & vibration. To turn the sounder off when the detector is on, press and hold the On/Off button until the green LED flashes. To turn the sounder back on, press and hold the On/Off button until the green LED flashes and the sounder beeps.
- **Verify Operation:** Before using detector, make sure the green LED is glowing and check the detector on a known live AC voltage that is within the defined detection range of the detector.
- **High Voltage Mode (100 to 1000V AC):** Place the tip of the detector near an AC voltage. If the detector detects voltage within the defined detection range, the green LED will turn off, the red LED will turn on, and the sounder will beep rapidly.

- **Low Voltage Mode (12 to 1000V AC):** Press and hold the 12V button (4). The green LED will change to yellow to indicate the detector is in the low voltage mode. While pressing the 12V button, place the tip of the detector near an AC voltage. When AC voltage is detected, the yellow LED will turn off, the red LED will flash and the sounder will beep.

NOTE: The flash rate and beeping rate will increase as the detector gets closer to the voltage source. If the detector detects high voltage, it will automatically change over to the high voltage mode: The red LED will change to a steady glow and the sounder will beep rapidly. The detector cannot determine the actual voltage. The voltage level where the detector switches from the low to high voltage mode is effected by insulation type and thickness, distance from the voltage source, and other factors.

- **Low Battery Indication:** Replace the batteries if the green LED does not turn on. When the detector is on and the batteries are too low for reliable operation, the alarm will beep three times and the green LED will turn off indicating the detector is not operational. Replace the batteries to restore operation.

- **Auto Power Off:** To conserve battery life, the detector will automatically turn off after approx 5 minutes of inactivity.
When powering down, the alarm will beep twice and the green LED will turn off.
- **Flashlight:** Momentarily press the Flashlight button (3) to turn the flashlight on or off.
To conserve battery life, the flashlight will automatically turn off after approximately five minutes. The alarm will beep twice as the flashlight turns off.

NOTE: If the battery voltage is too low to operate the flashlight, the detector will indicate this condition by beeping three times and the flashlight will turn off. The voltage detector has it's own low battery threshold and may remain operational, verify it's condition before using the tester.

- **Maintenance:**

1. Carefully unscrew the battery cap at the rear (flashlight end) of the detector.
2. Replace the batteries with two AAA 1.5V batteries observing the polarity.
3. Carefully align the 2 flashlight contact springs on the cap with the contacts above the batteries.

4. Press the cover onto detector and rotate clockwise until engaged. Do not use excessive force.
5. The IP67 dust and water ingress protection level is determined by the correct fitting of this cap.

NOTE: When batteries are loaded for the first time, please remove the white, rectangular security strip before installing the batteries.

• **Cleaning:**


Clean the detector with a clean, soft cloth.

Do not use any chemicals, abrasives or solvents that could damage the detector.

Specification	
Detection Voltage Range	100V AC to 1000V AC, 12V to 1000V AC
Frequency Range	50/60Hz
Batteries	2 x AAA 1.5V
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-10°C to 60°C (14°F to 140°F)
Humidity	80% Max
Altitude	200 meters
Pollution Degree	2
Safety Compliance	CAT IV-1000V
Certified	ATEX 2460

Limited warranty

1 year warranty against any manufacturing defects or faulty workmanship. This warranty does not cover fuses, disposable batteries or damage from accident, neglect, misuse, alteration, contamination or abnormal conditions of operation or handling.

 **WEEE Directive 2012/19/EU At the end of the product life, dispose of the instrument & batteries in a corresponding recycling centre. Do not dispose of the unit with the usual domestic refuse. Do not burn the product.**



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