Live Alarm - User Instructions

WARNING!

THIS PRODUCT MUST ONLY BE USED BY SUITABLY TRAINED AND COMPETENT PERSONNEL; DO NOT ATTEMPT TO USE THIS PRODUCT UNLESS YOU ARE QUALIFIED TO DO SO.

- The device **must not under any circumstances** be used as a substitute for your normal safe working procedures and precautions.
- Live H.V. equipment can arc when approached - **do not** use the device to pinpoint an E-field voltage or source.
- Covering the device with clothes could effect its sensitivity, thus creating a possibly hazardous situation.
- The device must be clipped on the outer garments facing the direction of movement.
- Ensure you are using the model appropriate to the electrical system and **know when** it will alarm.

General Description

The Live Alarm is designed to warn the user of the presence of potentially hazardous live voltage equipment by detecting the electric field (E-field) around it. As the 'ambient' field exceeds the (factory set) alarm level, the device will sound a high pitched 70 dB audible alarm every 0.5 seconds. This alarm will continue until the detected field strength reduces to below the (factory set) alarm level. The E-field strength will increase as you get closer to the source, therefore as you 'retreat' from a voltage source the strength will decrease.

Using the Live Alarm

For best results the device should **always be worn on the outside** of garments, e.g. clipped onto a pocket or a belt. The device is slightly static sensitive and may alarm once it becomes charged.

The device should be worn on an area of the body **facing the direction of movement** - this will normally be the front of the body. When the unit is clipped on, the user should ensure that the alarm **can be heard over the noise of the working environment.**

To test the alarm, press both **'check'** buttons together - this will test the integrity of the circuit and generate an alarm signal. If the alarm cannot be heard, the device should be clipped somewhere else on the body, e.g. a breast pocket.

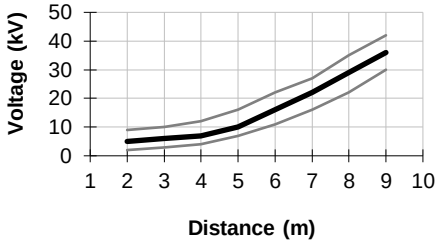
Battery Life and Condition

The Live Alarm is designed to have ultra low power consumption, typically 50 µA. One alkaline battery can last up to 2 years. As the battery condition deteriorates and becomes 'low', the Live Alarm will sound a high pitched beep every 30 seconds, this will not affect the units ability to detect and alarm. Once the low battery has sounded, the battery must be replaced immediately. Prolonged use of the Live Alarm when the battery is low is not recommended.

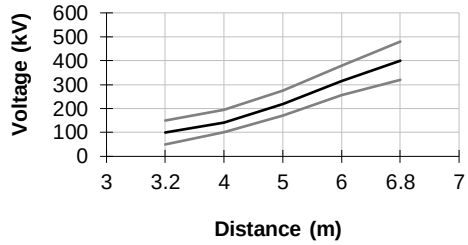
Specifications

Alarm Levels

LA5060D: 140 V/m (for Distribution - 50 & 60 Hz)
LA1625R: 140 V/m (for Rail - 16,6 & 25 Hz)



LA5060T: 2000 V/m (for Transmission - 50 & 60 Hz)



TECHNICAL SPECIFICATIONS (subject to change without notice)	
Alarm level (factory)	140 V/m (3 - 5 metres from voltage source - distance depends on voltage level). 2000 V/m (3 - 5 metres from voltage source - distance depends on voltage level). Other limits may be factory set.
Accuracy: 50 &60 Hz (5060-D & T) 16.6 & 25 Hz models (1625-R)	 ±10% ±10%
Frequency response: 50 &60 Hz (5060-D & T) 16.6 & 25 Hz models (1625-R)	 40-70 Hz ±3dB 10-34 Hz ±3dB
Operating temperature	-10 to + 50 °C
Battery (provided)	1 x 9V MN1604 - 6LR61 – PP3 (alkaline)
Quiescent battery life (alkaline)	17,000 hours (2 years)
Battery life with one circuit test per day (1 sec duration)	9,000 hours (1 year)
Case sealing	IP65
Weight	235g
Dimensions	120mm x 65mm x 22mm

Caution
The batteries used in this device may present a risk of fire or chemical burn if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace with a 9V alkaline battery IEC-6LR61 (PP3, MN1604). Use of another battery may present a risk of fire or explosion. Dispose of used batteries promptly. Check for signs of battery (electrolyte) leakage. If leakage has occurred, the PCB must be cleaned in an approved manner by a competent (trained) person. Keep away from children.

Maintenance
Prior to each use of the Live Alarm check the casing for signs of damage (cracks, broken or loose parts) or misuse. If the unit is damaged in any way it must **NOT** be used and should be returned to the supplier. The unit must not be used for any other purpose than for that recommended by the manufacturer. The unit must not be submerged in any liquid.

Cleaning
Wipe the outside of the case with a clean cloth damped with soapy water or IPA (Isopropyl Alcohol).

Warranty
All Acksen products carry a minimum 1 year back to base warranty covering manufacturing defects and component failures. The device contains no user-serviceable parts and as such should only be repaired by skilled and authorised personnel. Failure to comply could result in unsafe operation and should not be attempted under any circumstances. Contact below for a list of approved service agents. **Note:** Any unauthorised repair or adjustment will automatically render the warranty invalid.

Repair and spare parts

Acksen Ltd.
28 Station Road
Whiteabbey
Newtownabbey
Co. Antrim BT37 0AW
United Kingdom
Or an approved repair company.

Returning a product for repair
If returning a product to the manufacturer for repair, it should be sent freight pre-paid to the appropriate address. A copy of the Invoice and of the packing note should be sent simultaneously by airmail to expedite clearance through Customs. A repair estimate showing freight return and other charges will be submitted to the sender, if required, before work on the device commences.

WEEE
For EU customers Acksen Ltd offer a product take-back service. For customers within the European Union (only) and products manufactured or sold by us; when those products reach the end of their life, simply send them back to us at your expense, we will dispose of them according to the relevant legislation. WEEE Reg. No. WEE/DD2117VU. **Part No: LA-UI-En.PDF**

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