



RADIO VOICE ALERT SYSTEM

SmartVOX®

ae&t



INSTALLATION MANUAL

SAFETY INFORMATION

Please read this installation manual carefully before starting the installation.



This product must be installed and maintained by a suitable skilled and technically competent person, in compliance with the latest codes and regulations. Incorrect installation or use may cause electrical shock, injury or fire. Unauthorized repair will void the warranty.



SmartVOX® device produces loud sound (up to 126 dB at 1 m). Loud sound can cause irreversible damage. Operator must wear adequate ear protection during testing. Sound output level must be adjusted and appropriate safety distance must be kept during operation in order to comply with all relevant laws and regulations.

Ae&t reserves the right to make changes to product specifications at its discretion and without prior notice.



To ensure optimal operation, the installation must be completed within 3 months.

After this period, battery performance may be affected.

Please note that a power outage lasting more than 3 months may also result in reduced battery performance.

General safety

- Do not open, disassemble, or crush the battery.
- Do not expose the battery to flames or excessive heat.
- Do not short-circuit the terminals.
- Handle with care: risk of sulfuric acid leakage in case of damage.

Charging and use

- Do not charge in a confined space without ventilation.

End of life

- Never dispose of it in household waste.
- Take it to an approved collection center (hazardous waste).

Chemical risk

- The liquid contained inside is sulfuric acid, corrosive.
- In case of leakage: avoid any contact with skin or eyes. Rinse thoroughly with water and consult a doctor if necessary.

Storage

- Store in a dry, cool place, protected from frost.
- Recharge periodically if stored for a long period.
- Disconnect the battery if the 230 V AC power supply is cut for an extended period.

Pb



Technical data

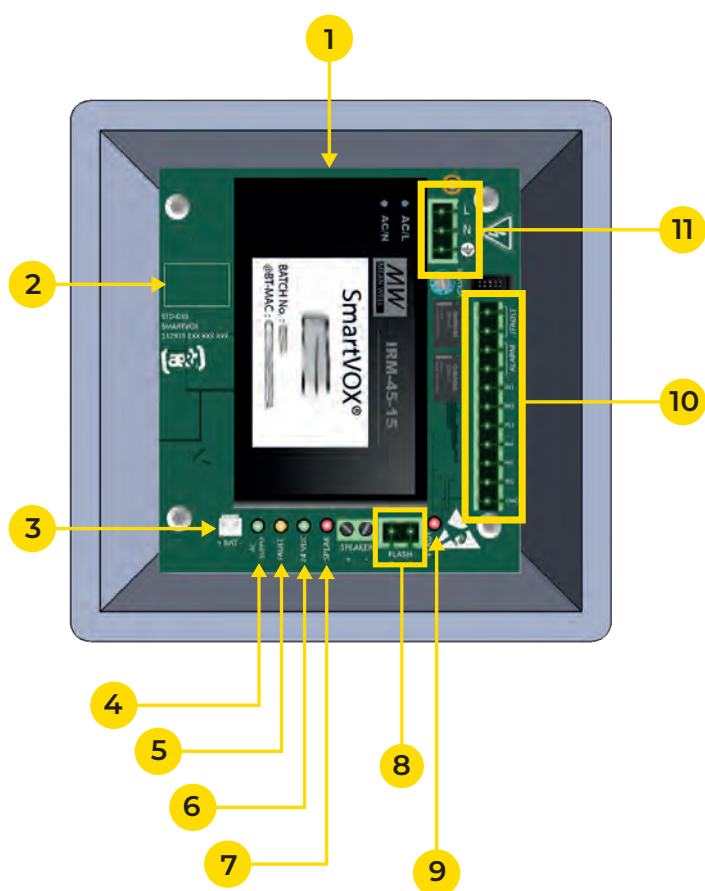
SmartVOX®

ae&t

Package contents

- x1 — Radio voice sounder **SmartVOX®**
- x1 — Battery for radio voice sounder **SmartVOX®**
- x2 — Cable glands
- x1 — Plug

Overview



- 1 RESET button
- 2 Manufacturing ID
- 3 Battery connector with polarity protection
- 4 Main power supply active
- 5 Fault indicator
- 6 Internal power supply active
- 7 Active speaker
- 8 Optical alarm
Combined version are pre-wired
- 9 Flashing light active
- 10
 - Trigger inputs
 - default output
 - Alarm output
- 11 Main power supply

Technical data



ACOUSTIC

Output	Max 126 dB (A) at 1 m
Sound types	Alarm tones and voice messages
Number of alarm tones	45
Number of custom messages	Up to 128
Message length	Unlimited
Synchronisation	Yes
Audio file format	Wav PCM 8-bits/16bits 8 kHz/16 kHz/32 kHz/48 kHz



OPTICAL *(for combined SmartVOX® SVL)*

Technology	LED
Effective intensity	180 cd
Operating mode	Steady, blinking, flash



RADIO

Frequency	868 MHz
Modulation	LoRa
Standard	ETSI EN300 220
Repeater	Oui
Network topology	Maillé
Inbuilt antenna	Oui
Range	Jusqu'à 1,2 km
Max. equipments on the network	Up to 128



BLUETOOTH

Standard	4,1
Range	5 m



ELECTRICAL

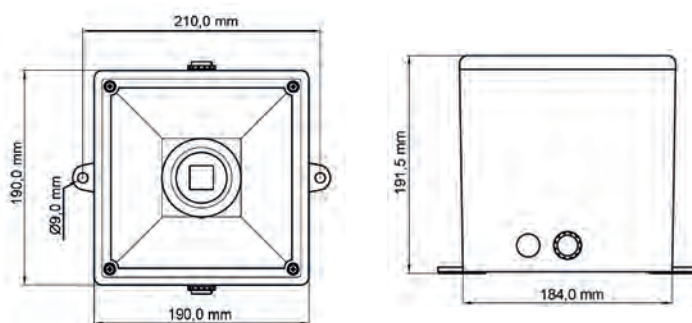
Main supply voltage	100 – 240 V ac 50/60 Hz
Broadcast consumption (typical)	0,8 A / 115 Vca 0,4 A / 230 Vca
Standby consumption (typical)	0,03 A
Trigger inputs.	x 6
Fault relay	x 1
Alarm relay	x 1
Terminal block	24 - 12 AWG / 0,205 - 3,31 mm ²
Battery	12 V - 0.8 Ah - Lead



MECHANICAL

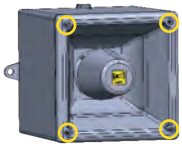
Dimensions	190 x 190 x 190 mm
Weight	SV012 : 2,2 kg SV230 : 2,8 kg
Cable entry knockouts	2 x Ø 20 mm? <i>2x cable glands included</i>
Protection rating	IP 66
Operating temperature	-25°C à +55°C
Relative humidity	90% at 20°C
Material	ABS UL94 V-0 & 5VA

Dimensions

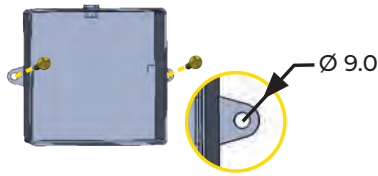


Installation and wiring of the SmartVOX® radio audible and voice sounders

1 | Fix the box



Unscrew the 4 locking screws and remove the front panel

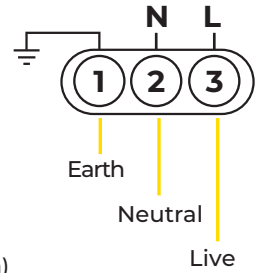


Securely fix the box using 2 suitable screws

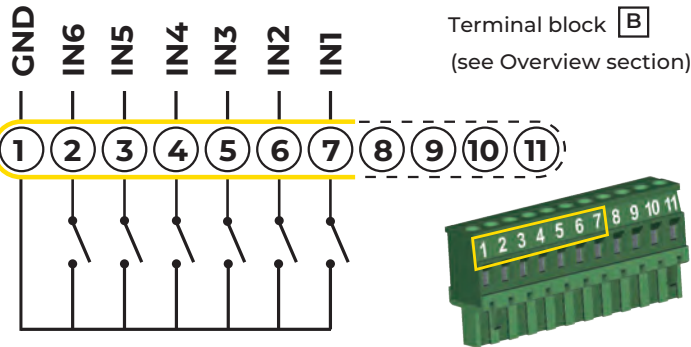
2 | Wire the mains power



Terminal block **A**
(see Overview section)



3 | Wire the inputs



Follow this step if a wired triggering device is connected to this **SmartVOX®** device.

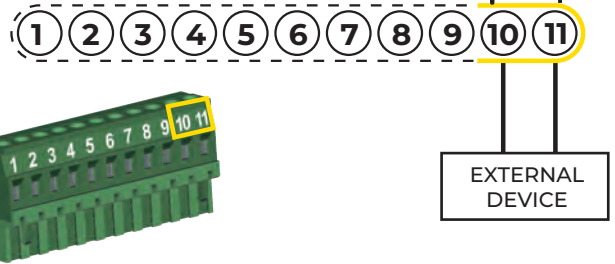
The input can be set to normally close, normally open, momentary or latching in the software configuration

INPUTS TECHNICAL DATA

Self-powered inputs by 9 V dc voltage source	
Leakage current to GND	9 mA
Power series resistance	1 kΩ
Minimum detection level	2,7 Vcc
Maximum detection level	6 Vcc
Anti-rebound filter duration	150 ms

4 | Wire the fault output

Terminal block **B**
(see overview section)



The default output, which can be configured from the **SmartVOX-Config** application, allows the **SmartVOX®** to be interfaced with external equipment.

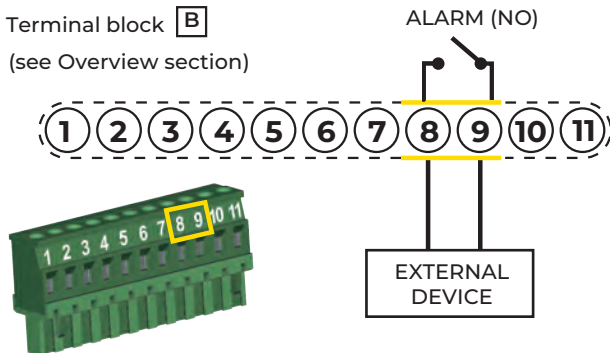
The fault output can be wired to control an external device in case of a fault (e.g: battery fault, power cut, loss of network communication...)

FAULT OUTPUT TECHNICAL DATA

Nominal resistive load	0.5 A à 60 Vca ; 1 A à 24 Vcc
Maximum switching power	62.5 VA, 30 W
Maximum switching voltage on resistive load	60 Vca, 60 Vcc
Maximum switching current on resistive load	1 A

5 | Wire the trigger output

Terminal block **B**
(see Overview section)



The alarm output, which can be configured from the **SmartVOX-Config** application, allows the **SmartVOX®** to be interfaced with external equipment.

The ALARM relay is closed when the **SmartVOX®** device emits an audible or visual signal.

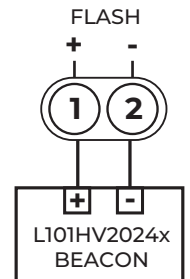
TRIGGER OUTPUT TECHNICAL DATA

Nominal resistive load	0.5 A à 60 Vca ; 1 A à 24 Vcc
Maximum switching power	62.5 VA, 30 W
Maximum switching voltage on resistive load	60 Vca, 60 Vcc
Maximum switching current on resistive load	1 A

6 | wire the optional LED beacon L101HV2024x

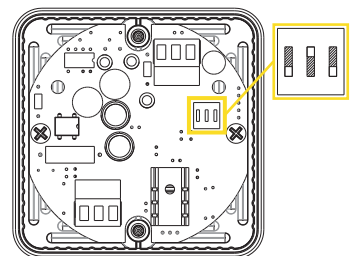
NOTE : LED beacon is already wired on the combined **SmartVOX®** device SVL.

Terminal block **C**
(see Overview section)

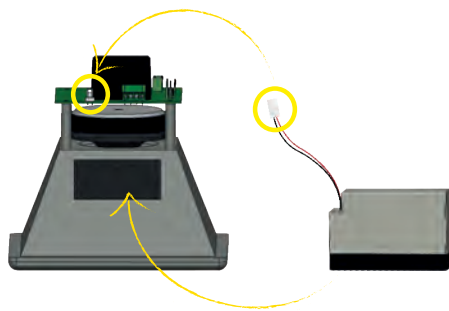


POSITION OF MICROSWITCHES & OPERATING MODE

000	Steady on
001	Flashing Double Strike
010	Flashing 1 Hz
011	Flashing 2 Hz
100	Blinking
101	Flashing Triple Strike
110	Flashing 1.5 Hz
111	Flashing Temporal



7 | Mount the battery



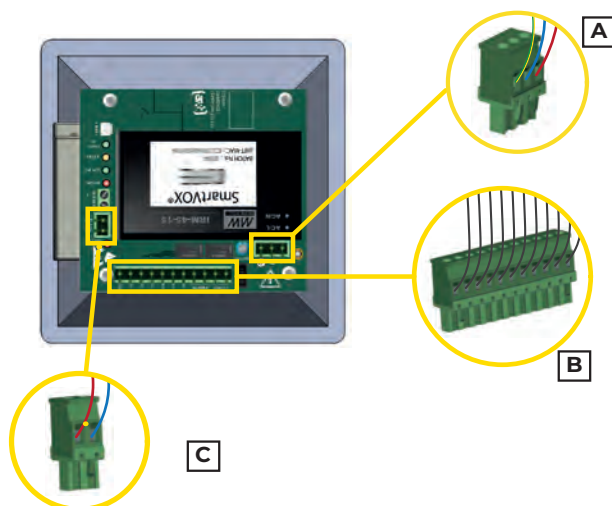
Battery 12 V - 0.8 Ah – Lead YUCEL Y0.8-12FR

Mount the battery on the Velcro and connect it to the board.

The battery is automatically charged when SmartVOX® device is on mains power.

Battery life at 20°C: up to 5 years.

8 | Reconnect the terminal blocks

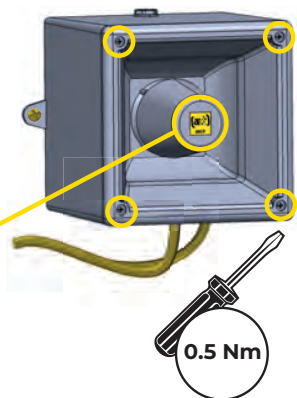


9 | Mount the front panel

COMPLIANT INSTALLATION

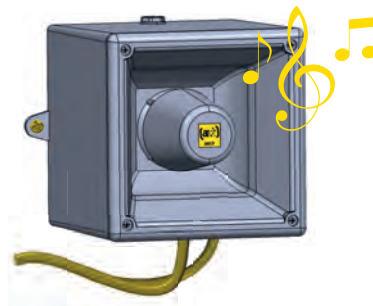


NON COMPLIANT INSTALLATION



Mount the front panel to the back box

10 | Switch on the mains power



Switch on the mains power.
The SmartVOX® sounder starts up and emits a single tone

The SmartVOX® sounder is ready to be configured.
Please refer to the configuration manual.

CONFIGURATION MANUAL

Find the **digital version**

HERE



www.....fr

Or request a **hard copy**

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