



RADIO VOICE ALERT SYSTEM

SmartVOX®

ae&t

Indoor



1 | 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 122 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.

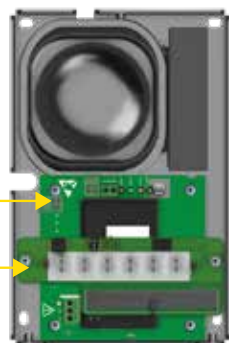
Pb



Package content

- x1 — Radio voice sounder **SmartVOX® Indoor**
- x1 — Battery for radio voice sounders **SmartVOX®**

Overview

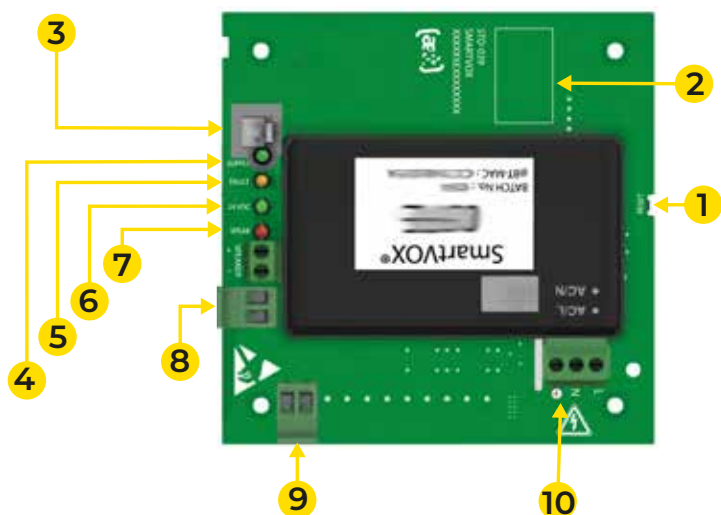


SmartVOX® electronic card

Flash light electronic card

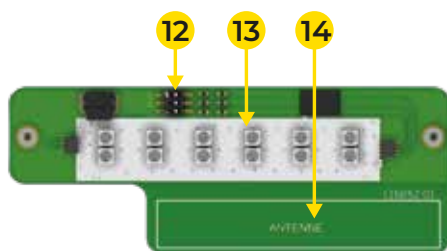
Details

SmartVOX® Electronic card



- 1 RESET button
- 2 Manufacturing ID
- 3 Battery connector with polarity protection
- 4 Main power supply active
- 5 Fault
- 6 Internal power supply active
- 7 Active speaker
- 8 Optical alarm
- 9 Trigger inputs
- 10 Main power supply

Flash light electronic card



- 12 Selection of optical alarm colour
- 13 12 x RGB LED
- 14 LoRa Radio Antenna

Technical specifications



ACOUSTIC

Output	122 dB (A) at 1 m
Sound types	Alarm tones and voice messages
Number of alarm tones	49
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

Technology	LED RGB
Effective intensity	38 cd (continuous mode)
Operating mode	Steady, blinking, flash
Colour selection	Via microswitch



RADIO

Frequency	868 MHz
Modulation	LoRa
Standard	ETSI EN300 220
Repeater	Oui
Network topology	Mesh
Inbuilt antenna	Yes
Range in open area	Up to 1,2 km
Max. equipments on the network	Up to 128



ELECTRICAL

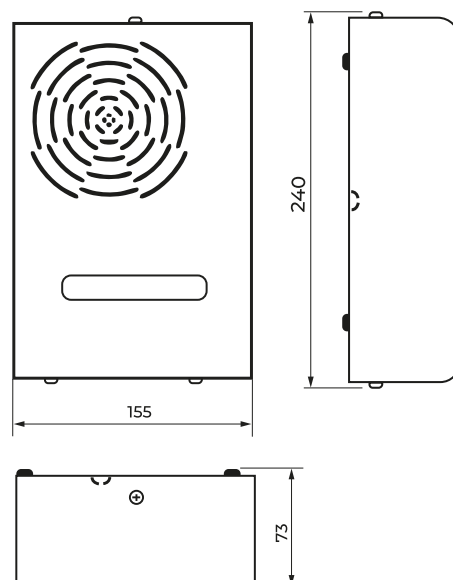
Main supply voltage	100 – 240 Vca 50/60 Hz
Broadcast consumption (typical)	0,8 A / 115 Vca 0,4 A / 230 Vca
Standby consumption (typical)	0,03 A
Trigger inputs	x 1
Terminal block	24 - 12 AWG / 0,205 - 3,31 mm ²
Battery	12 V - 0.8 Ah – Plomb



MECANICAL

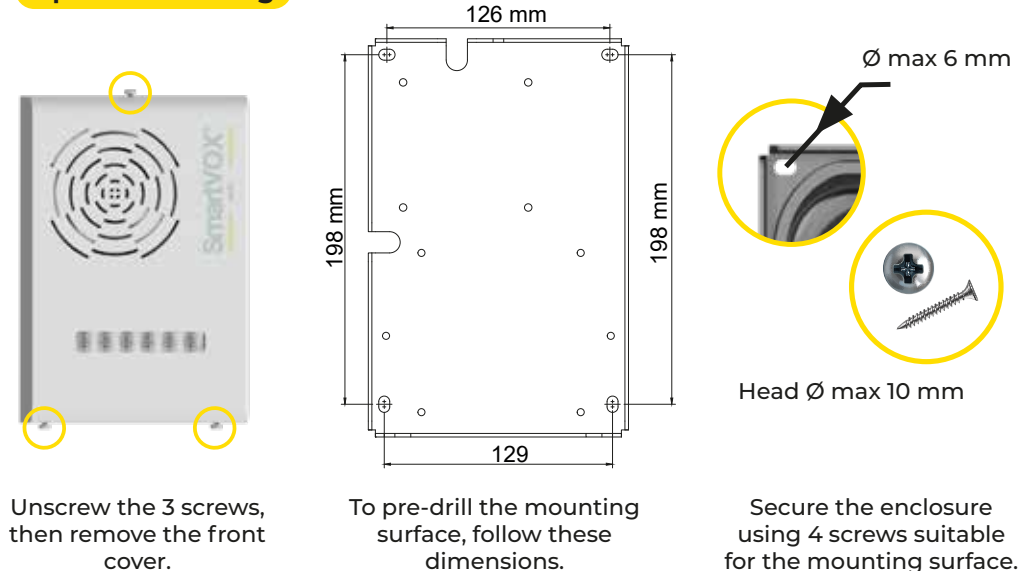
Dimensions	240 x 155 x 73 mm
Weight	2,2 kg (with battery)
Cable entry knockouts	2 pre-cut knockout
Protection rating	IP 3X
Operating temperature	-25°C à +55°C
Relative humidity	10 - 85 %
Material	ABS UL94 V-0

Dimensions (mm)

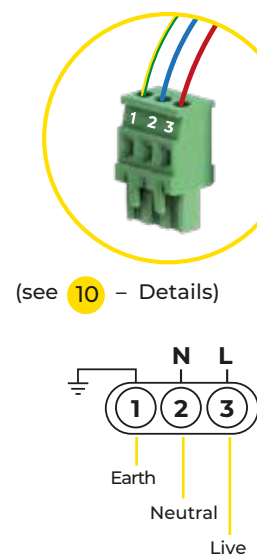


Mounting and wiring of the SmartVOX® Indoor

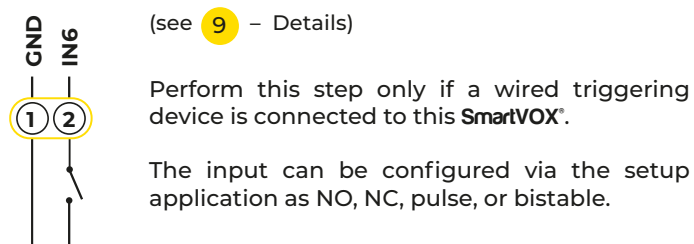
1 | Fix the housing



2 | Connect the power supply



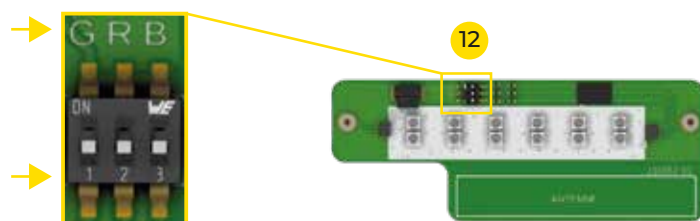
3 | Wire the trigger input



INPUT TECHNICAL SPECIFICATIONS

Inputs powered by a 9 VDC source	
Leakage current to GND	9 mA
Supply series resistance	1 kΩ
Low detection level	2,7 Vcc
High detection level	6 Vcc
Debounce filter duration	150 ms

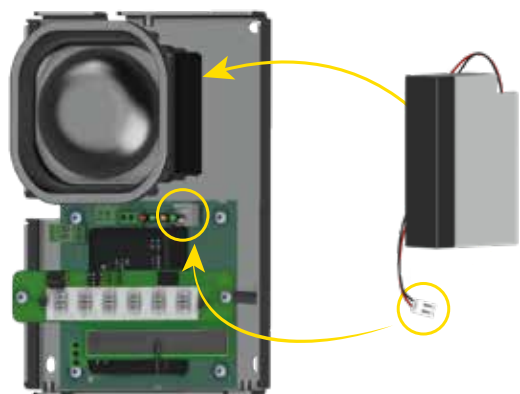
4 | Select the beacon color



MICRO-SWITCH POSITIONS & COLORS

	OFF	White	Green	Red	Blue	Yellow	Turquoise	Violet
1 G	OFF	ON	ON	OFF	OFF	ON	ON	OFF
2 R	OFF	ON	OFF	ON	OFF	ON	OFF	ON
3 B	OFF	ON	OFF	OFF	ON	OFF	ON	ON

5 | Install the battery



Battery 12 V - 0.8 Ah - Plomb YUCEL Y0.8-12FR

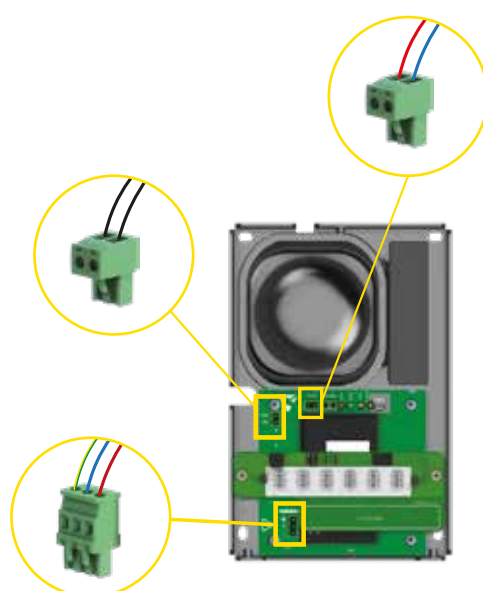
Secure the battery to the Velcro strip and connect it.

Please note: ensure the battery is positioned as shown, with the black side facing upwards/outwards.

The battery is automatically recharged when the main 100–240 V AC power supply is connected.

Battery life at 20°C: up to 5 years.

6 | Insert the plug-in terminal blocks



7 | Fit the front panel



Attach the front panel to the back plate.

8 | Powering on



Switch on the system.
The **SmartVOX** starts up and emits a tone.

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



2 | CONFIGURATION MANUAL

Find the
digital version

HERE



<https://smartvox.fr/documentation>

Or request
a hard copy

Applications Electroniques & Techniques
4 Impasse Joliot Curie • 64110 Jurançon • France
+33(0)5 59 06 06 00
info@aet.fr