Smart VOICE SOUNDER





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 dammage. 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.

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SmartVOX[®] device plays back sounds and user defined voice messages.



SmartVOX[®] device is controlled and communicates with other SmartVOX[®] through radio LoRa modulation.



The 6 wired inputs per SmartVOX[®] device can be used to activate personnalised scenarios from triggering devices.



In case of a power cut, the built in battery keeps SmartVOX[®] device operationnal.



SmartVOX® device is easily configured and can be monitored through bluetooth connectivity with android devices and Windows PC.



Each scenario can be broadcasted to a SmartVOX[®] device or a group of SmartVOX[®] devices. Up to 16 groups can be created.



SmartVOX® device is self-monitored. If a fault is identified, it can emit a fault tone and a relay output Is activated. A SmartVOX® device can also monitor other SmartVOX® devices in the network.



IN THE BOX







TECHNICAL DATA

Acoustic

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

Optical

(Available with combined product SmartVOXFlash)

Technology	ED
Effective Intensity 176	cd
Operating mode Steady or 2 Hz flash mode	de

Radio

Frequency
Modulation LoRa
Standard ETSI EN300 220
Repeater Yes
Network topology Mesh
Inbuilt antenna Yes
Range

Bluetooth

Standard	4.1
Range	5 m

Electrical

Mains supply voltage 100 – 240 V ac 50/60 Hz
AC current (typical) 1.5 A / 115 V ac 0.9 A / 230 V ac
0.75 A / 277 Vac
Standby consumption (typical) 10 W
Broadcast consumption (typical)
Trigger inputs x 6
Fault relay
Alarm relay x 1
Terminal block
Battery 12 V- 0.8 Ah – Lead

6

Mecanical

Dimensions
Weight
Cable entries 3 holes Ø 20 mm
2x cable glands included
2x hole plug included
Ingress protection IP66
Operating temperature
Relative humidity
Material ABS UL94 V-0 & 5 VA







1.1 Unscrew the 4 locking screws and remove the front panel







1.3 Disconnect the 3 terminal blocks







1.5 Wire the inputs

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

- Technical data:
 - Self-powered inputs by 9 V DC voltage source
 - Leakage current to GND : 9 mA
 - Power series resistance : 1 $k\Omega$
 - Minimum detection level : 2,7 V DC
 - Maximum detection level : 6 V DC

The input can be set to normally close, normally open, momentary or latching in the software configuration (see page 27).



Examples of triggering devices



1.6 Wire the fault output

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...)

Technical data:

- Nominal resistive load : 0.5 A at 60 V AC; 1 A at 24 V DC
- Maximum switching power : 62.5 VA, 30 W
- Maximum switching voltage on resistive load : 60 V AC, 60 V DC
- Maximum switching curent on resistive load : 1 A



1.7 Wire the trigger output

The trigger output can be wired to control an external device. The relay is closed when SmartVOX® device emits an audible or visual signal.

Technical data :

- Nominal resistive load : 0.5 A at 60 V AC; 1 A at 24 V DC
- Maximum switching power : 62.5 VA, 30 W
- Maximum switching power on resistive load : 60 V AC, 60 V DC
- Maximum switching curent on resistive load : 1 A



1.8 Wire the optional LED beacon

L101HV2024X beacon can be set to either steady or flashing mode. See L101HV2024X user manual for further information.

Nota : LED beacon is already wired on the SmartVOX[®]Flash device.



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

- Battery 12 V 0.8 Ah Lead YUCEL Y0.8-12FR
- The battery is automatically charged when SmartVOX[®] device is on mains power.
 - Battery self-test performed every 15 minutes.











1.12 Switch on the mains power: SmartVOX® starts up and emits a single tone

SmartVOX[®] device is ready to be configured.





2.1 Download and install SmartVOX-Config software

Set up is done via bluetooth using the SmartVOX-Config software



Configuration Steps

Must be repeated for each device

Preliminary step Mandatory

SmartVOX-Config installation

Bluetooth Pairing

Connection

Common parameters

Must be identical on all the SmartVOX[®] devices

Radio

Group names

Sound library

Specific parameters

Can be personnalised on each SmartVOX[®] device

Name

Volume

Triggering Inputs

Fault

Groups

Bluetooth

Advanced

2.2

CONFIGURATION

2.2 Stand close to the SmartVOX[®] device to be configured





CONFIGURATION



Select Start ■ > Settings ₹ > Devices > Bluetooth & other devices, and turn on Bluetooth.

Select Add Bluetooth or other device > Bluetooth. Choose the SmartVOX® to be paired.

வ் Home	Bluetooth & other devices
Find a setting	+ Add Bluetooth or other device
Bluetooth & other devices	Bluetooth
Printers & scanners	Mouse, keyboard & pen
() Mouse	USB Keyboard

Enter PIN code

By default : 0000. It is recommended to modify this PIN code. See page 30 See page 30 to reset the PIN code.

2.3' Pair the SmartVOX[®] device with your Android device

Swipe down from the top of the screen Tap Bluetooth $\cancel{1}$ to turn on Bluetooth

Touch and hold Bluetooth Tap **Pair new device** Tap the name of the SmartVOX[®] to be paired.

Enter the PIN code By default : 0000. It is recommended to modify this PIN code. See page 30 See page 30 to reset the PIN code.





2.5 Customise radio settings

For security purpose, we recommand to enter a personnalised network identifier and encryption key

These parameters must be identical across all radio devices of the network.

Connection > 🐼 Settings > 🖗 Radio

	אן Disabled ۱۱ Enabled
<u>л</u> т	e radio parameters must be identical on all network devices
Radio c	hannel
Ō	3 radio channels available
868	x.100 MHz ~
Networ	k identifier
Q	The network identifier must be between 0 and 65534
	- 9346 +
Encrypt	ion key
Õ	The encryption key must not contain whitespace or special characters with a maximum of 15 characters
key	



CONFIGURATION

2.6 Customise group names

For easier configuration and supervision, the names of the groups can be personnalised

Connection > ऄॖऀ Settings > ⊡ Groups

Grou	p name	S							
	1st-FLC	DOR	2nd-FLO	OR	MAIN-E	INTRANC	E	GROUP-	4
	GROUP-5	5 (GROUP-6	GRO	OUP-7	GROU	IP-8	GROU	P-9
	GRO	OUP-10	GROL	JP-11	GRO	UP-12	GR	OUP-13	
		GR	ROUP-14	GRC)UP-15	GROU	JP-16		

Configuration Steps	CUNFIGURATION		
Must be repeated for each device	2.7 Create and upload custom	sounds and voice messag	es
	Voice messages are easilly created and save	d on your PC thanks to the text-to-spee	ech tool.
Preliminary step Mandatory	↓ Vocal synthesis		
SmartVOX-Config installation			
Bluetooth Pairing			- L
Connection	Voice message Type your message here		- 1
	Language		
	French female		
Common parameters Must be identical on all the SmartVOX [®] devices	l'm not a r	obot 💽	
Radio		reCAPTCHA Privacy - Terms	- I.
Group names	Creat	te WAV file	- 1
Sound library			
Specific parameters an be personnalised on each imartVOX® device Name Volume Triggering Inputs Fault	Custom sounds and voice messages must be The custom sound table must be identical a Fill in page 35 to aid with the setup of the o Connection > S Settings > S S => Custom	e uploaded to each SmartVOX® and Sm across all the SmartVOX® and SmartRE ther devices. ound <i></i> Standard	artREMO
Groups			
Bluetooth	1 Emergency evacuation procedure 19,1 sec		•
Advanced	2 Lockdown procedure 4 sec		ĩ
	3 Safety instructions 2,6 sec		•
	+ Add so	und n°4	



Groups Bluetooth Advanced

CONFIGURATION

2.8 Rename the SmartVOX®

For easier configuration and supervision, the nickname of the SmartVOX® device can be personnalised

Connection > ऄ Settings > ✔ Description

Device nickname

Q

Device nickname is only as an indication. It must not contain whitespace or special characters with a maximum of 15 characters

SECURITY-POST





- Output volume is set to a minimum by factory default
- The Alert volume attenuation setting will be added to the scenario attenuation (see page 27)
- System sounds are used for start up melody, fault tones and system messages.

🔽 Connection > 🏠 Settings > 🎵 Audio





IN5

Signaling

Audible and visual

Sound n°2

Emergency Evacuation Procedure

Ļ

▶II 5,7 sec

🗣 0 dB

IN6



The SmartVOX® can monitor network devices, emit a fault tone and switch on its fault relay if any one



2.13 Define the groups which the SmartVOX[®] device is associated with

Each SmartVOX[®] device can be associated with several groups.

Connection > ऄॖ Settings > 🖪 Groups

Associated groups
${\it Q}$ List of the groups which the SmartVOX® is associated with
Join a group 🗸
1st-FLOOR x MAIN-ENTRANCE x



2.14 Personnalise bluetooth PIN code

- For security reason, the PIN code should be change from the default factory value
- To reset PIN code to its factory value (0000), hold the DFU button for 10 seconds. WARNING : total factory reset if DFU is held for 30 seconds.
- Bluetooth pairing will be lost if the PIN code is changed or reset. The device must be removed from the computer / mobile bluetooth paired device list and paired again, see pages 19-20.

Connection > ᡬऄ Settings > ⊁ Bluetooth

PIN cc	de
Ç	? The PIN code must contain between 4 and 8 digits
	0001
	Bluetooth pairing will be lost





2.15 Automatic restart and bluetooth deactivation mode

Activate or disable the automatic restart and bluetooth deactivation mode

Connection > 🐼 Settings > 🙆 Advanced

Auto	omatic reboot
	Q Automatic and silent SmartVOX reboot every 24h
	🔌 Disabled 👌 Enabled
Blue	tooth visibility
	 Permanent: Bluetooth always visible Temporary: Bluetooth will be deactivated after 15 minutes. Pairing and connection will no longer be possible. Recycle mains power to re-activate
	Ō Temporary

NETWORK OVERVIEW



2.16 Check the status of all SmartVOX[®] devices of the network.

SmartVOX[®] devices should be located so that all signal strenghts are green or orange.

Connection > 🕎 Supervision



FIRMWARE UPDATE

2.17 When a new firmware is available, a « new » icon will apear in the menu.

Connection > 🐺 System

System				-	×
	🕑 Update		Advanced		
		Firmware version v1.3.0			
	Available update				
		New firmware available			
	Manual update				

MEMO

GROUPS NAME



MEMO

CUSTOM SOUND LIBRARY

The custom sound table must be identical across all the SmartVOX[®] and SmartREMOTE devices.

1	
$\left(\begin{array}{c}2\end{array}\right)$	
\bigcirc	
3	
$\left(4\right)$	
\bigcirc	

Contact us for personalised advice

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