

SESA Tunes - Ref. STA



SESA Tunes Advanced is a **programmed and intelligent acoustic alert for hybrid or electric buses and coaches** able to diffuse the 3 majors exterior warning sounds: the **AVAS R138 sound (Approaching Vehicle Audible System)**, the **pedestrian gong** and the **reverse alarm** sounds. This [R138 sound](#) solution is multi-function and unrivalled on the market. This AVAS device, has been imagined, designed and produced in France by SESALY, equipment's manufacturer specialized in designing and assembling lighting and sound signaling solutions dedicated to buses and coach comfort and security. This acoustic alert for electric or hybrid buses and coaches complies with following regulations: [ECE R138 \(AVAS compliant\)](#), CEM R10 06 (electromagnetic compatibility) and ECE R118 (fire & smoke standard). The [ECE R138](#) final compliant certification (AVAS) on the vehicle will be obtained once final tests on the installed product will be done at the initiative of the client. SESA Tunes Advanced complies to ISO 16 650-2 standard. SESA Tunes Advanced is an acoustic multi-function solution, dedicated to improve **safety of electric and hybrid vehicles**. Thanks to some distinctive technical features, this sound solution is performant and easy to use:

- This AVAS [R138 sound](#) solution operates with a nominal operating voltage of 12/24 Vdc (ISO1750-2)
- This acoustic alert solution for electric and hybrid vehicles diffuses 3 exteriors sounds: AVAS SESALY sound (Approaching Vehicle Audible System), the pedestrian gong sound and SESALY reverse alarm sound.
- The AVAS level sound can be adjusted to comply with R138 regulation. Depending on the setting, SESA Tunes can produce idling AVAS sound emission or inhibition at 0km/h, it can emit the AVAS sound level between 0 and 4 km/h and it can also provide an AVAS sound emission enslaved to vehicle speed between 5 and 20 km/h (mandatory required by [R138 regulation](#))
- Thanks to its CAN reading ability of (2.0A and 2.0B – J1939 – ISO 11898-2 20kBits à 1000kBits), this AVAS solution for buses is

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intelligent. Owing to CAN reading, the activation of day/night mode, urban gong sound and reverse is possible with SESA Tunes.

- CAN/FMS reading information required to ensure the proper functioning of AVAS are: vehicle speed, vehicle moving direction
- This warning R138 sound alert is equipped with a wired entry (high/low level) to operate assigned functions: reverse sound or day/night or pedestrian gong sound
- Its consumption compared to it throughput is: 2W max, 83mA max at 24V and 166mA at 12V
- SESA Tunes is supplied with 8 DEUTSCH connectors
- Its protection index or IP is 56K for underframe mounting and 64K for the speaker
- The centerline distance attachment is 48mm
- The weight of this exterior sounds diffuser is only 640gr
- On request, it's possible to connect a second speaker enslaved to SESA Tunes : SESA SPEAKER
- A 5° orientation toward the floor is the installation prescription.
- SESALY software for adjusting sound level is integrated

SESA Tunes AVAS range also offers a premium version : SESA Tunes PREMIUM, a product able to pilot and diffuse all vehicle sounds: interior and exterior sounds. For more informations about [R138 regulation](#), [go on our expert page](#).

TECHNICAL CHARACTERISTICS

Brand	SESALY
Product Type	Standard
Voltage	12/24 V
Approval	ISO 16 650-2, ISO 16 650-3
Options, upon request	Connection to a second slave speaker SESA SPEAKER, SESA TUNES CREATOR software to adjust sound levels
Weight	0,64 Kg
Main Functions	AVAS SESALY (Approaching Vehicle Audible System) , Gong urban sound
Specific Functions	Back up alarm
IP protection	56K (base mounting) , 64K (speaker)

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EMC	ECE R10-06
ECE	R118, R138 (AVAS)
Industry	Buses and Coaches, Electric vehicles, Trucks, Vans and Chassis cab

OTHER VISUALS

Les multiples fonctions SESA Tunes

SESA Tunes multi-functions

	SESA Tunes Advanced	SESA Tunes Premium	
Pilote & diffuse tous les sons extérieurs : AVAS (ECE R138) + gong piéton + alarme de recul	✓	✓	Pilots & diffuses all exterior sounds : AVAS (UNECE R138) + pedestrian gong + reverse alarm
Pilote & diffuse les sons intérieurs : radio + arrêt demandé + microphone conducteur + mouvement de porte + alarme de sécurité + rampe handicapés	✗	✓	Pilots & diffuses interior sounds : radio + stop request + driver microphone + door movements + security alarm + disabled people ramp deployment
Nombre de sons gérés	20 AVAS	20 AVAS	Number of sounds managed
Nombre de sorties haut-parleurs gérés	10 AVAS	8	Number of output speakers managed
Priorités & niveau sonore gérés	✓	✓	Priorities & sound level management
Création & intégration d'un son spécifique : votre signature sonore	✓	✓	Creation & integration of specific AVAS sound : your sound signature
Conformité CAN/FMS	✓	✓	CAN/FMS conformity compliance
Conformité ITXPT (en projet)	✗	✓	ITXPT conformity (project)

