

# RPS-250-VH SIREN

## DATASHEET



Developed and manufactured by Hungarian company, they are used as comprehensive industrial and residential emergency alerting devices. The model number represents the RMS sound performance value.

These types of device are able to broadcast predefined siren tunes, sound files stored in its memory and live microphone speech. They enable individual local alerting through interfaces at siren endpoints.

There is a status monitoring and testing circuitry installed in control cabinets set up at siren endpoints, enabling recording and transmitting of status information.

Owing to the modular design of the equipment, on-demand expanding of audio frequency power amplifiers is possible (depending on local availability). Presently an amplifier of 250W RMS output power is installed in each piece of equipment.

Power is supplied via a battery pack sized to supply such power demand. Regular power supply only charges this battery pack resulting in a small current consumption of 1.5 A from the 230 V network or from car generator.

Testing and checking on the operational safety of the electronic sirens are achieved through a what is called "mute" testing during which control electronics and speakers are checked. During

"mute" testing sound amplification units transmit sound on frequencies outside the human perception range thus not disturbing people in the vicinity. Detections of occasional errors, malfunctions can be seen on the control interfaces in both local and remote mode.

### Siren horns

AL-257 is a white 100 W high-performance loudspeaker, 11 Ohms impedance. Its rectangular ABS diffuser with easy-to-replace motor stands out for its durability and reliability.

It includes a flat base mounting on vehicle roofs.



## Technical specifications:

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Maximum achievable sonic pressure:	in 30 m distance 103 dBA
Power supply connection:	230 V / max 1.5 A
Power consumption at maximum load:	25 A / 24 V / from battery
Output power:	250 W RMS
Minimum alerting time:	20 minutes
Protection type:	IP 65
Device control cabinet size:	63 cm x 50 cm x 32cm

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## P-PAD401, REV1.0 power amplifier modules specification:

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Connector:	DIN 41612
Power source:	24V DC (21V – 29V)
Output power:	250W rms (max. 350W rms)
Current load:	11,8A (250W rms / 24V)
Output voltage:	37V eff. (max. 41V eff.)
Efficiency (signal):	>88%
Efficiency (PA):	>80%
Input sensitivity:	650-2000mV variable
Input impedance:	400 Ohm, gal. isolated, symmetric
Frequency range:	20Hz – 18KHz / -3dB
Operational temperature:	-30 °C ~ +50 °C
Protections:	overload, temperature

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## AL-257N

### Horn module specification:

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Power:	100W
Ohm:	11
Driver:	Neodymium
Dimensions:	210 mm x 223 mm x 155 mm (Hight incl. mounting kit: 180 mm)

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