

RE-2AS

PUBLIC ADDRESS & VOICE ALARM SYSTEM

General

The Ravel RE-2AS is a compact EN 54-16 certified public address and voice alarm system that ensures a fast, safe and controlled emergency evacuation. RE-2AS is the most versatile and cost effective PA/VA system, thanks to its cutting-edge features, excellent audio quality and flexibility in minimum space. It has 2 class D amplifiers, 6 zones, 3 audio inputs, 6x6 audio matrix, DSP and LCD display. The system can be configured without software or PC, thanks to the Plug & Set mode for PA/VA. Audio inputs and automatic mixing allow high versatility for PA use in small installations. RE-2AS has an EN 54-4 battery charger and can operate with one 12V battery. This feature and its advanced power saving control reduce maintenance costs to the maximum. A Wall & Rack innovative design makes RE-2AS suitable for wall mounting and rack integration.

Features

- 3 audio inputs.
- Up to 8 MPS-8Z multizone microphones or VAP-1 panels connected with CAT5 UTP cable.
- 2 class D amplifiers with two configurations for 100V/70V lines up to 500W.
- Digital audio matrix 6x6, expandable.
- 4 pre-amp outputs for external PA amplifiers connection.
- DSP: 3/7-band input/output parametric equalizer, loudness, Ravel sound enhancer, independent volume control per each input and output master.
- Access control by LCD display.
- Control for up to 16 Ravel AT6 attenuators.
- 8+2 GPIO ports, supervised for integration with Fire Alarm Control Panel.
- Interface MODBUS RTU RS 485 Half duplex

Voice Alarm / Emergency Features

- Certified under EN 54-16, EN 54-4 and EN 60849 standards.
- Backup amplifier included.
- 10 minutes storage for pre-recorded messages.
- Failure detection and indication in all emergency functions.
- Fire Alarm Control Panel integration.
- Double player for pre-recorded evacuation messages.
- Manual control of emergency states with access control.
- Emergency log.
- Loudspeaker lines supervision.
- Line terminator without return for supervision.



EN 54-16 / -4

Specification

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|------------------------------------|--|
| <i>Power supply</i> | 100 - 240V~ 50/60Hz |
| <i>Power consumption</i> | 350W max / 100W at 1/8 output power |
| <i>Frequency response</i> | 80 – 20000Hz +/-1dB |
| <i>Signal to noise ratio</i> | SNR~95dB, A-weighted |
| <i>Distorsion factor</i> | < 0.1% according to IEC 60268 -15dB. <0,01% pre-out outputs |
| <i>Gain adjustment per channel</i> | -100dB +10dB, 1dB steps |
| <i>DSP</i> | Integrated - 48 kHz, 24 bits - 344 MIPS |
| <i>BGM audio inputs</i> | Up to 3 x balanced audio 1 Vrms. 10 K Ω , 3 Pin, Euroblock type |
| <i>Priority audio inputs</i> | 2 x balanced audio 1 Vrms. 10 K Ω , 4 Pin, Euroblock type (GPIO) |
| <i>General control (GPIO)</i> | 2 x control I/O, 0-5 V, 100 Ω , in PRIO audio inputs |
| <i>Ravel ACSI Bus</i> | 1 x balanced audio 1 Vrms. 10 K Ω , RJ-45 female, total 1000m / 3280,84ft |
| <i>ACSI-Link connectivity</i> | 2 x balanced audio 1 Vrms. 10 K Ω , RJ-45 female, total 500m / 1640,42ft |
| <i>Pre-amp audio outputs</i> | 4 x balanced audio 1 Vrms. 100 Ω , 3 Pin, Euroblock type |
| <i>Attenuators control</i> | 6 x override 24V DC, 6 x 30mA, 2 Pin, Euroblock type (4 pin connector) |
| <i>Emergency control inputs</i> | 8 x 0 - 5V DC, monitored inputs, 2 Pin, Euroblock type (4 pin connector) |
| <i>Emergency control outputs</i> | 2 x contact closure output, NO, max 60V DC 130mA, 2 Pin, Euroblock type (4 pin connector) |
| <i>Virtual matrix</i> | 15 x 24 maximum |
| <i>Amplifier</i> | 2 x 500W D class (250Wrms x 2) @ 70 / 100V. Min load 20 Ω |
| <i>Backup amplifiers</i> | 1 backup amplifier with automatic priority according to EN 54-16r |
| <i>Speaker line outputs</i> | 6 x 100V audio. Min. impedance: 20 Ω 500W (outputs 1 and 2), 80 Ω 120W (rest), 2 Pin, Euroblock type |
| <i>Output power</i> | 500 W (Pink Noise 1/8). 200 Wrms according to EN 54-16 |
| <i>Protection</i> | Over-temperature, infrasonic, short circuit, slow start-up, overload |
| <i>Emergency power</i> | 181x76x167mm battery housing, up to 22Ah |
| <i>Battery charger</i> | Integrated, smart charging up to 3 amperes |
| <i>Display</i> | Backlit LCD 2 rows x 16 characters |
| <i>Operation conditions</i> | -5°C to +45°C / 23°F to 113°F 5% to 95% relative humidity (without condensation) |
| <i>Finish</i> | Materials : Fe y AL |
| <i>Colours</i> | RAL7016 and RAL9005 |
| <i>Weight</i> | 7.5 Kg / 15.76 lb |
| <i>Dimensions (W x H x D)</i> | 453mm x 88mm x 455mm / 18.2" x 3.46" x 18" |
| <i>Accessories</i> | Male Euroblock connectors, installation screws, 4 x rubber foot |

Ordering Information

| Model | Description |
|--------|--------------------------------------|
| RE-2AS | Public Address & Voice Alarm System. |

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