PROEL

AE300

Integrated Voice Alarm System EN54-16, EN54-4

Overview

All-in-one EN54-16 and EN54-4 certified Voice Alarm System with integrated main and backup power supply, internal backup batteries, integrated charger and battery tester. Transformer coupled 300W main and spare Class D "Pure Path" ™ power amplifiers on redundant A+B 100V loudspeaker line. Full power and full performance is granted with both main and backup power sources. DSP based audiophile sound processing. Balanced and isolated background music input, general announcement isolated microphone station input with enabling contact trigger and selectable 48V phantom power; monitored input for remote emergency call stations, frontpanel monitor speaker, monitored emergency PPT microphone and line output for active sub-woofer. Audiophile grade 16bit 48Khz message player with uSD storage: 8 general purpose messages triggerable by dedicated input contacts or by embedded scheduler and 2 monitored input triggers for fire alarm emergency announcements. Comprehensive user interface with LCD dot-matrix display, navigation buttons, alarm fire alarm announcements direct activation buttons and user activation key.

Technical Specifications

Model	AE300
Main power source	AC mains 220V - 50/60Hz

Backup power source	48V – built-in batteries (4x 12V 7,2A/h sealed lead acid)
Backup power unit life	36h stand-by + 0.5h full power
Maximum power consumption	350W
Rated Output power	Single zone 300W rms @ 1% THD on 100V loudspeaker line
Frequency response	100Hz – 18Khz @ -3dB
Signal to noise ratio	>90dB
Redundant power amplifier	Yes
Redundant loudspeaker line	Yes (Line A, Line B)
Loudspeaker line monitoring	Line A and Line B independent 18 KhZ FFT impedance measurement +/-5% range. Detection of line cut, line short, line grounding
User interface	Status leds + dot-matrix display, menu navigation keyboard, direct access status keys (alarm, warning, silencing)
Audio processing	DSP based, 16bit-48Khz; 3-band equalizer, Compressor/expander on microphone inputs; Pre-gain and master volume controls; Chime
Audio inputs/outputs	Background music; microphone input with phantom supply and enable contact input. Subwoofer line output
Front panel loudspeaker monitor	YES
Emergency Firemen microphone	Frontpanel PPT microphone with monitored capsule RJ14 input for WG-MTU01 desktop emergency call station
General input controls	8x dry contact inputs triggers for general announcement messages
General message scheduler	YES
Input controls from fire alarm devices	2x monitored input contacts against cable-cut and cable short. Alarm, warning
Output status reporting	2x 1A 230V relay contacts (alarm, fault)
Communication	RS485, RS232 diagnostic port, RJ45 10 BASE-T/100
Battery monitoring	Internal resistance DC measurement
Certifications and compliancy	EN54-16, EN54-4, BS-EN5839-8, 60849
Access restriction	Key-locked front door, password protected access to system menu
Chassiss, dimensions and weight	Steel, powder coated – 12Kg batteries included. Width 440mm, Height 11 Rack units (490mm) – Depth 150mm