



Architect & Engineer Specifications

LDA NEO8060

NEO8060: PA/VA System Main Controller and Amplifier 8 x 120W

- The PA/VA System Main Controller and Amplifier will be NEO8060 or similar.
- The PA/VA System Main Controller and Amplifier will be certified according EN 54-16 standard for Voice Alarm Systems and be compliant to EN 60894 standard for Security Systems.
- The whole PA/VA System Main Controller will be able to fit 2U of 19-inch rack and will include all these features:

MATRIX AND AUDIO SOURCES

- Full Digital Matrix of 40 sources x 1024 zones. Each zone should be able to have different audio sources simultaneously.
- 5 balanced audio inputs.
- Microphone Bus that supports up to 8 multi-zone microphones or fireman panels. The bus will support the transmission of audio, data and power to feed the microphones.
- 2 internal pre-recorded messages player with 2GB of memory.
- Integrated PTT Emergency Microphone, fully supervised.
- Integrated support for Audio over Ethernet with Cobranet protocol.

AMPLIFIERS AND AUDIO OUTPUTS

- 8 independent Class D amplifiers of 120 W power for PA lines of 100V.
- Possibility to operate in dynamic bridged mode: up to 4 amplifiers of 250 W power for PA lines of 100V.
- All amplifiers will be fully supervised.
- Possibility to use one of the integrated amplifier as automatic backup amplifier. This amplifier will remain in stand-by, in case of failure of another amplifier, the backup amplifier will be automatically switched to substitute the faulty amplifier without any human intervention.
- 2 outputs per amplifier for A+B wiring of speaker lines. Each output fully supervised.
- Speaker line supervision via End of Line device and Impedance Measurement.
- Frequency Response: 20 - 20.000Hz +/-1dB
- Signal to noise ratio: R>98dB, A-weighted
- Distorsion Factor: <0,05%
- Gain Adjustment per channel: -100dB -0dB, 1dB steps

EMERGENCY FEATURES

- Detection and indication of all emergency and failure states with LEDs and on-screen messages.
- 10 x Fully Supervised Input Dry Contacts for integration with Fire Alarm Panels.
- 2 x Fully Supervised Output Dry Contacts for integration with Fire Alarm Panels.
- 3 x Fully Supervised Input Dry Contacts for integration with Battery Chargers.
- 485 Serial Port for Integration with Fire Alarm.
- Integration with Fire Alarm via Ethernet commands.
- Full Supervision of Emergency Microphones.
- Simultaneous Evacuation and Alert emergency messages.
- Phased evacuation.
- Manual control of emergency states with access control via on-screen passwords.
- Recording output for emergency warning.
- Emergency and Functional Log.

CONNECTIVITY AND INTEGRATION

- 14 programmable GPIO ports.
- 2 x 485 Serial Port for advanced integrations with third party systems.
- Integrated Ethernet switch with 3 x RJ45 ports.
- Integration with third party systems via Ethernet commands.
- Open platform for programming all integration commands with third party systems.
- 8 x 24V Override outputs for attenuators and strobes control.

ADDITIONAL FEATURES

- Digital Signal Processor (DSP):
 - 48 kHz, 24 bits - 344 MIPS
 - 7-band input Parametric Equalizer.
 - 7-band output Parametric Equalizer.
 - Loudness.
 - LDA sound enhancer.
 - Independent volume control for each I/O channel.
 - Audio filters.
- 4,3" Frontal touch screen.
- Integrated frontal speaker for monitoring.
- 8 x Balanced line-level audio outputs (one for each zone).
- Power Supply 110- 240V ~ 50/60Hz, Fused

- Emergency Power Supply 20-25V DC, 20A, Fused.
 - Protection against over-temperature, DC, infrasonic, short-circuit, slow start-up, overload and start-up test.
 - Advanced Configuration Software included.
-
- The PA/VA System Main Controller will be able to be easily expanded by using “Extension” devices that will add more amplifiers and audio zones:
 - Connection between the PA/VA System Controller and the Extension devices will be done through a standard Ethernet connection in loop mode (redundant).
 - Redundant connection between PA/VA System Controller and the Extension with automatic switching.
 - No additional switches or devices should be required for fully connectivity.
-
- Many PA/VA System Main Controllers will be able to operate together as parts of a whole system via a central management software.
-
- The PA/VA Main System Controller will be able to operate at -5 °C to +45 °C / 23 °F to 113 °F and at 5% to 95% Relative humidity (No condensation).
-
- Rack mounting accessories, male Euroblock connectors, installation screws, rubber foot, power cable and Ethernet cable will be included with no additional cost.