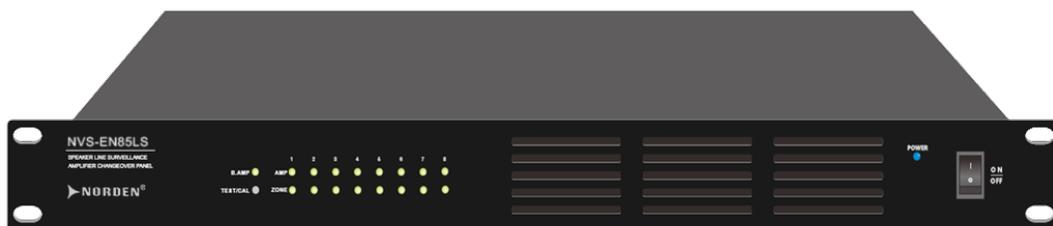


8-CHANNEL SPEAKER LINE DETECTOR WITH AMPLIFIER CHANGEOVER



VOICE ALARM SYSTEM

DESCRIPTION

The NVS-EN85LS is an EN54-16 certified, 19-inch 1U rack-mountable 8-channel amplifier controller that integrates fault auto-changeover and speaker line impedance surveillance into a single unit, providing a streamlined solution for professional audio systems. It ensures continuous operation by automatically switching to backup amplifiers in case of primary amplifier failure, while its advanced impedance monitoring system detects and reports speaker line faults, ensuring system integrity and compliance with safety standards. This compact unit is ideal for critical audio installations requiring high reliability and comprehensive monitoring.

FEATURES

- ◉ 8 speaker line fault detection ($\leq 2s$)
- ◉ Alerts via LEDs, buzzer, RS485, fault out
- ◉ 8 amp, 1 standby, 8 line indicators
- ◉ Front-panel calibrate button

Specifications	
Model	NVS-EN85LS
Pilot Tone Frequency	20 KHz ($\pm 5\%$)
Detection Line	50V/70V/100V Speaker line
Input Sensitivity/Impedance	1V, 10K Ohm
Detection Level	50V rms min
Amplifier Detection Time	< 1 Second
Speaker Line Detection Time	< 2 Seconds per speaker zone
Changeover Time	< 1 Second
Failure Detection Time	5-15 Seconds
Failure Reset Time	20 Seconds Max
Zone Loading Capacity	500W /100V Line Max
Measurement Sensitivity	$\pm 10\%$ of Speaker line impedance
Max Loading Current	8A
Connector	Phoenix connector & RJ45
Power Supply	24V DC by phoenix connector Max. 2A
Dimension	484x420x44 mm
Weight	3.2kg

NVS-EN85LS

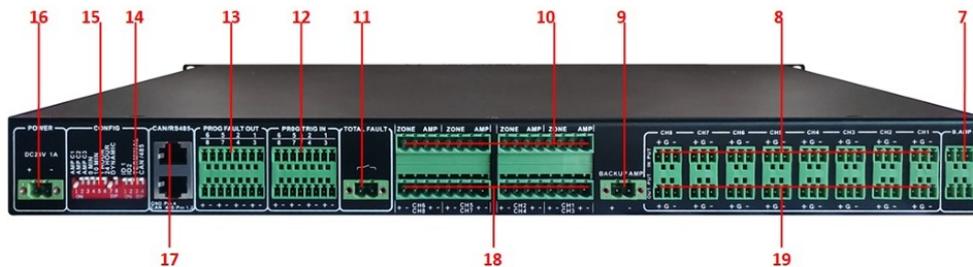
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FRONT PANEL



- 1) Power switch, to power on/off the AC main power supply
- 2) Power Led Indicators, light on blue means AC main power supply on
- 3) CH 1-8 Main Amplifier Status Indicator
- 4) Backup Amplifier Status Indicator
- 5) Test & Calibration
- 6) Speaker Zone indicator

REAR PANEL



- 7) Line Input for Backup Amplifier & Line Output to Backup Amplifier
- 8) Line Input for Main Amplifier 01-08
- 9) Backup Amplifier 100V speaker output connects to this terminal
- 10) Main Amplifier 01-08 its 100V speaker output connects to these 8 terminals
- 11) Total Fault
- 12) Program Trigger Input
- 13) Program Trigger Output
- 14) Equipment ID Configuration
- 15) Backup Amplifier Qty Setting, Speaker Line Supervise Period Setting
- 16) 24V DC power supply
- 17) CAN & RS485 Two Ports
- 18) 100V speaker zone 01-08 output connects to 100V loudspeakers only.
- 19) Line Output to Main Amplifier 01-08

ORDERING INFORMATION

Part Number	Description	Standard Quantity
NVS-EN85LS	8-CHANNEL SPEAKER LINE DETECTOR WITH AMPLIFIER CHANGEOVER	01

ACCESSORIES INFORMATION

Description	Standard Quantity
User Manual	01