NVS-EN85CT

8 ZONE VOICE ALARM CONTROLLER

NORDEN®

DESCRIPTION

The NVS-EN85CT is an 8-zone voice alarm controller with EN54-16 certified public address and voice evacuation system, ideal for use in commercial, industrial, and public buildings, such as offices, shopping centers, hospitals, and schools. This all-in-one system includes remote PC software, zone paging, amplifier changeover, speaker line supervision, power monitoring, and an emergency microphone. Integrated with a Digital Signal Processor (DSP), it ensures high-quality audio for both announcements and emergency evacuations. The controller offers 8 zone outputs with a 500W power rating and can be configured through software for zone settings, fire alarm modes, and AC/DC configurations. It complies with EU regulations EN54-16:2008 for voice alarm control and indicating equipment.

FEATURES

- Auto broadcasting of 256 pre-set EVAC and alert voice messages to designated zones
- Customizable alert, evacuation, and business messages stored on the SD card
- AB speaker line surveillance for failure detection
- Backup power amplifier management
- Expandable up to 120 zones with additional NVS-EN85CX Voice Alarm Extenders
- Supports up to 32 remote paging microphones, fireman microphones, and touch screen microphones
- 8 supervised trigger inputs/outputs, plus fault, reset, and EVAC relay outputs
- Automatic logging of events and faults

Specifications

Model	NVS-EN85CT
Rated Power Output	500W
Fireman Microphone	5Mv, 600Ω
Line 1-2 Inputs	385mV, 10kΩ balanced Combo XLR
Line 3-6 Inputs	350mV, 10kΩ, RCA
Frequency Response	80Hz~20kHz
THD	<1% at RMS,1KHz
S/N Ratio	>70dB
Speaker Output	100V AB 8 zone speaker outputs
Trigger Input & Output	8 trigger inputs: Max 3.3V (voltage mode) or 0V closed contact;

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Version 2.2

NVS-EN85CT
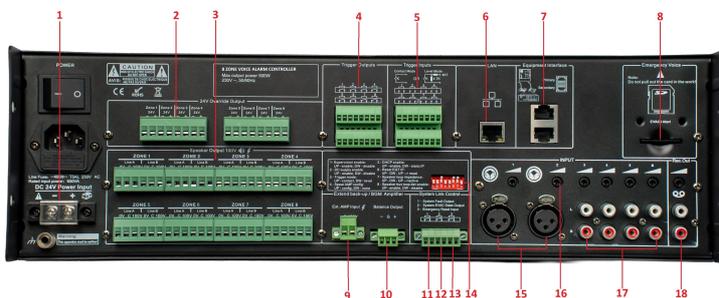
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Trigger Input & Output	8 trigger outputs: 0V closed contact;
Trigger Input & Output	1 fault, 1 reset & 1 EVAC relay outs
Voice Message	MP3 or WMA format, two separate players of SD card, programmable voice message up to 256, 10 years valid
Event Record	HEX format, Hard Flash memory, events up to 1000 records, 10 years valid
Operating Temp	Operating Temp: +5℃ ~ +40℃; Store Temp: –20℃ ~ +70℃; Humidity: <95%
Power Consumption	650W
Power Supply	AC230V or 115V & 24V DC inputs, 50-60HZ
Dimension	484×132×405mm
Weight	23kg

FRONT PANEL

1. AC Power Indicator
2. DV24V Indicator
3. Communication Indicator among Host and Extension
4. Fault Indicator
5. Emergency Microphone Indicator
6. Indication Test Button
7. Emergency Button
8/9. EVACS & Alert Emergency Message Button & Indicator. Green "EVACS MSG/ALERT MSG" Voice is in broadcast information; Yellow "EVAC8
10. ACK/RESET Button
11. All Zone Selector
12. Zone Fault Indicator
13. Zone Emergency Microphone or Remote Microphone Indicator
14. Zone Emergency Broadcast Indicator
15. Zone Background Music Indicator
16. Zone Selector
17. Emergency Microphone Input
18. Monitor Speaker Attenuator
19. Emergency Microphone Gain Control
20. Treble Control
21. Bass Control
22. Master Volume Control

REAR PANEL

1. 24V DC Power Input
2. 8 Zone 24V Relay Outputs
3. 8 A/B Speaker Zone Outputs
4. 8 Program Control Outputs
5. 8 Program Control Inputs
6. LAN Input for PC Software
7. Voice Alarm Extender Input
8. Emergency Message Memory Card
9. Standby or Extension BGM Amplifier 100V Input
10. Standby or Extension BGM Amplifier Balanced Line Output
11. Fault Output
12. Emergency Output
13. Remote Reset Input
14. Function Configuration Dipswitch
15. External Two Microphone or Balanced Line Inputs 5-6
16. Gain Control
17. Line Inputs 1-4
18. Host REC Output

ORDERING INFORMATION

Part Number	Description	Standard Quantity
NVS-EN85CT	8 ZONE VOICE ALARM CONTROLLER	01

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