

XLS1000 Audio and Fire Telephone System

Excel Life Safety
S Y S T E M

SPECIFICATION DATA



3-ASUFT Audio Source Unit with Firefighters Telephone

FEATURES

- **Up to Eight Channels of Simultaneous, Uninterrupted Digital Communication on a Single Pair of Wires**
- **Reliable Distributed Amplification**
- **On-board Storage of Programmed Messages and Tones**
- **Class A or Class B Operation**
- **UL and ULC Listed**

GENERAL

The XLS1000 Audio and Fire Telephone System consists of a digital audio communication system using distributed amplification, a paging microphone, and a fire fighters telephone. This communication package enables the operator to make fast and accurate evacuation control announcements. The Audio Source Unit also serves as the command center from which the fire fighters activities may be directed.

The XLS1000 audio communication system is comprised of standard modules and components that fit together easily and seamlessly with the XLS1000 Life Safety System.

The XLS1000 Audio and Fire Telephone System takes full advantage of digital technology to provide up to eight channels of uninterrupted audio sources transmitting over a single pair of wires between nodes. Combining the inherent survivability and performance of zoned amplifiers with simplified operator interfaces makes audio system design and operation easy and dependable.

DESCRIPTION

The XLS1000 Audio and Fire Telephone Systems provide the emergency operator with an easy-to-use communication package that enables the operator to make simple, accurate, and fast evacuation control announcements. The XLS1000 Audio System builds from standard modules that fit together easily. Audio components use standard XLS1000 cabinets and power supplies. A single cabinet with audio requires only one 24V standby battery.

Seamless Integration with Standard XLS Components:

The XLS1000 Audio and Fire Telephone System consists of audio equipment such as Audio Source Units (ASUs), telephones, microphones, and audio inputs. The audio control equipment installs in standard XLS1000 fire alarm panels; for example, at the main control panel to provide an emergency operator interface for paging and, optionally, a firefighter's master telephone. Zoned amplifiers also mount in the main control panel and/or in remote nodes. By mounting amplifiers in remote nodes, wire runs and space requirements are reduced at the main control panel.

Audio Source Unit (ASU):

The ASU converts analog signals to digital signals. It samples the analog signal 9600 times per second to provide high-quality reproduction of audio sources. On-board audio memory stores signal tones and/or alarm-alert verbal messages. The ASU has 2 minutes of memory for tone and message storage. The optional 3-ASUMX Memory Expansion Board expands available message memory to 36 minutes.



ASUs support connection of a local microphone, remote microphone, telephone voice line, and auxiliary audio input. With eight audio channels to choose from, combinations of paging, alert, evacuation signaling, and automatic messages are available for simultaneous delivery to different parts of a building.

There are two main ASU modules, the paging microphone (3-ASU) and the firefighter's telephone (3-ASUFT). They are available individually or in a set to increase system design flexibility.

3-ASU Paging Microphone:

When the Life Safety system requires Paging Only, the 3-ASU provides a Master Paging microphone with common controls. Switch labeling makes the operation easy to understand. Six LEDs and five switches cover paging operations:

- READY-TO-PAGE**—LED turns ON after the pre-announce tone has finished indicating the system is ready to page.
- ALL CALL**—Selects all amplifiers for page delivery.
- PAGE TO EVAC**—Selects all amplifiers currently delivering evacuation signaling for page delivery.
- PAGE TO ALERT**—Selects all amplifiers currently delivering alert signaling for page delivery.
- ALL CALL MINUS**—Selects all amplifiers not programmed for alarm signaling for page delivery (typically stairwells).
- PAGE BY PHONE**—Selects the telephone voice line as the paging source.

Three of the five paging switches, All Call, Page to Evacuation (EVAC), and Page to ALERT, cover most paging operations. A VU (volume unit) display shows the output level of the page in process.

Operating the Microphone Talk Key stops alarm signaling to selected zones and starts pre-announce tone delivery. When the pre-announce tone finishes, the Ready-to-Page LED turns on.

The 3-ASU mounts in one chassis space of a standard system enclosure. In addition to the paging microphone, the 3-ASU has mounting space for up to four local rail modules, including 15W and 30W zone amplifiers and up to four Control Display modules.

3-ASUFT Firefighters Telephone:

When system design calls for paging with Firefighters telephone, the 3-ASUFT provides all the features of the 3-ASU with the added benefit of a master handset assembly. The 3-ASUFT provides easy-to-understand switches and text messages that display on a backlit 8X20 character LCD display.

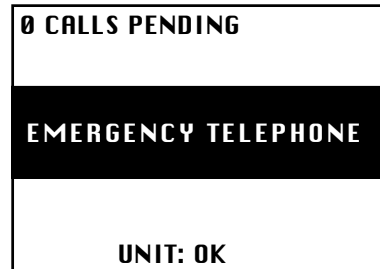
Switches include:

- CONNECT** switch—Selects phone circuits shown in the Calls Pending window.
- REVIEW PENDING**—Stops automatic display of pending calls and allows the operator to step through each message one at a time.
- ACK** (acknowledge)—Silences the telephone systems audible signal. The signal re-sounds for any new call.

DISCONNECT—Disconnects the highlighted call in the calls connected list.

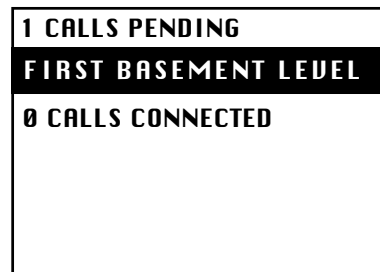
REVIEW CONNECTED—Scrolls a reverse highlight through the calls connected list.

The Firefighters telephone LCD is very similar to the LCD Operator Interface. When there are no active telephone calls, the LCD shows a title screen. Example:



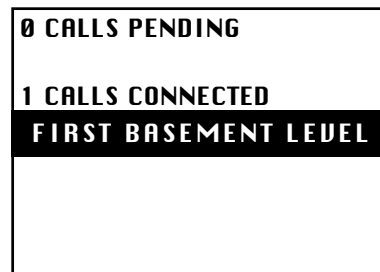
LCD Title Screen.

Active calls display a text message referencing the remote phone location. Example:



Call Pending from the First Basement Level.

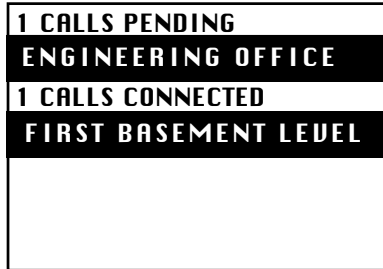
When a remote handset is lifted, the LCD updates to show calls pending. The call-in signal sounds to alert the operator of a pending call. Example:



First Basement Level Call Connected.

An operator answers the call by pressing the Connect switch. The location message moves from the pending line to the connected line. The call in signal silences. The operator uses the master telephone to talk with the connected telephone.

If another call comes in, the location message appears in the calls pending line and the audible signal re-sounds. The operator can silence the signal by answering the call or by pressing the **ACK** (acknowledge) switch. Example:



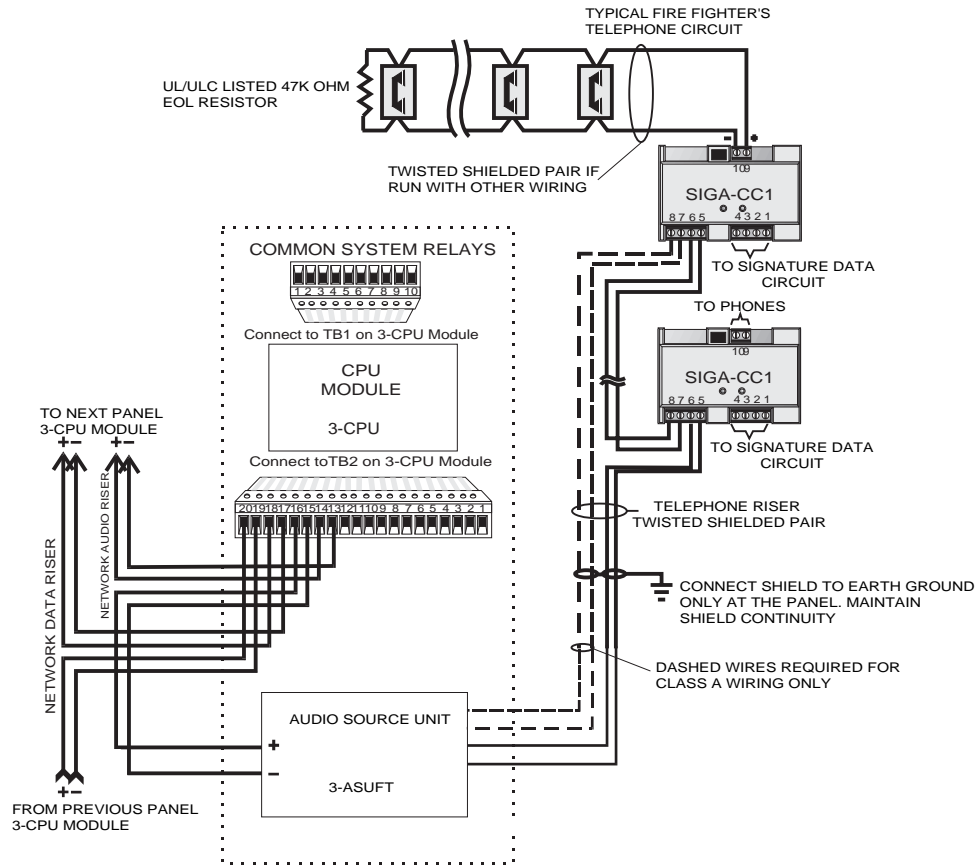
Additional Call.

NOTE: Up to five remote telephone handset assemblies can connect to the system simultaneously without any degradation of audio quality.

ORDERING

Catalog Number	Description
3-ASUFT	Audio Source Unit with local microphone and firefighters telephone.
3-ASU	Audio Source Unit with local microphone. Provides four local rail spaces.
3-ASUMX	Audio Source Unit Memory Expansion. Provides 36 minutes of message time.

TYPICAL WIRING



SPECIFICATIONS

Models:

- 3-ASU
- 3-ASUFT

Ambient Temperature:

32 to 120°F (0 to 49°C)

Ambient Humidity:

0 to 93% RH noncondensing

Mounting:

One Chassis Space

Wire Size:

Model 3-ASU:

Network Data Riser: 18 to 12 AWG (1.0 sq. mm to 2.5 sq. mm)

Network Audio Riser: 18 to 12 AWG (1.0 sq. mm to 2.5 sq. mm)

Model 3-ASUFT:

Network Data Riser: 18 to 12 AWG (1.0 sq. mm to 2.5 sq. mm)

Network Audio Riser: 18 to 12 AWG (1.0 sq. mm to 2.5 sq. mm)

Telephone Riser: One twisted pair, shielded, 18 to 14 AWG (1.0 sq. mm to 1.5 sq. mm)

Current Rating:

Model 3-ASU:

130 mA Alarm

130 mA Supervisory

Model 3-ASUFT:

192 mA Alarm

152 mA Supervisory

Audio Inputs:

Model 3-ASU:

Local Microphone (isolated and supervised)

Remote Microphone (isolated and supervised)

Four auxiliary signal sources (isolated)

Model 3-ASUFT:

Local Microphone (isolated and supervised)

Remote Microphone (isolated and supervised)

Firefighter's telephone (isolated and supervised)

Four auxiliary signal sources (isolated)

Pre-recorded Message Storage:

2 minutes standard, expandable to 36 minutes with optional 3-ASUMX

Auxiliary Input Impedance:

1K Ω

Telephone Riser (only available for Model 3-ASUFT)

Active Telephones: 5 Maximum

Wire Size:

One twisted pair, shielded

18 to 14 AWG (1.0 sq. mm to 1.5 sq. mm)

EOL Resistance: 47K Ω

Approvals:

UL, ULC

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