5820XL-EVS Application Guide
Addressable Fire Alarm Control with Emergency Voice System

What is it?

The 5820XL-EVS is an addressable fire alarm control system with an integrated emergency voice system. The 5820XL-EVS is UL 864 listed as a fire alarm control system and UL 2572 listed as an emergency communication system (ECS).

Why should you be excited about this product?

- First integrated fire and voice control in security equipment distribution. Previously voice evacuation could only be done with a side car solution with competitive fire controls

- NFPA 72 2013 edition defines an emergency communication system as a Life Safety System - Property owners and AHJs alike prefer integration of fire and ECS because of the fire alarm robustness and strict adherence to NFPA 72 code

- Current events are creating a greater demand for ECS

- Although this unit is listed for ECS, the majority of the wholesale distribution fire market will be driven to it as a voice evacuation system. Previously, Silent Knight’s only voice evacuation product was the side car SKE-450 that had maximum capability of 50 Watts.
  - The 5820XL-EVS can have up to any combination of four EVS-INT50W, EVS-50W, EVS-100W or EVS-125W amplifiers. Up to 500 Watts total.
  - Amplifiers are connected to the control through the SBUS allowing the designer to place the amplifier where power is needed and significantly reducing speaker wire runs, which saves labor and materials.

- Current Silent Knight 5820XL users do not need to learn a brand new panel. All fire hardware and programming options remain the same. The ECS portion is just adding a few modules and programming options.

- The 5820XL is a favorite for medium to large non-proprietary commercial applications. The addition of integrated voice options will keep it there.
What type of applications?

- Places of assembly (Theaters, government facilities)
- K-12 educational facilities
- College campuses
- Military facilities
- Hotels/Motels
- Manufacturing facilities
- Office complexes

Part Number Review

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>5820XL-EVS</td>
<td>Addressable fire alarm control with emergency voice system. Up to 792 devices using System Sensor protocol. Up to 508 devices using Hochiki protocol. Up to four amplifiers totaling 500W.</td>
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<tr>
<td>EVS-125W</td>
<td>125 watt amplifier. Four speaker circuits. Four additional speaker circuits with EVS-CE4.</td>
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<tr>
<td>EVS-100W</td>
<td>Amplifier configurations: 50 watts with 50 watts as backup, 100 watts, 100 watts with 50 watts backup. Backup daughter card model EVS-100WBU. Eight speaker circuits.</td>
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<tr>
<td>EVS-50W</td>
<td>50 watt amplifier. Four speaker circuits. Four additional speaker circuits with EVS-CE4.</td>
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<tr>
<td>EVS-INT50W</td>
<td>Internal 50 watt amplifier. Fits into the 5820XL-EVS cabinet. One speaker circuit.</td>
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<tr>
<td>EVS-CE4</td>
<td>Four speaker circuit expander</td>
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<tr>
<td>EVS-RCU</td>
<td>Remote control unit. Up to four per system. Meets UL 2572 as a Local Operators Control (LOC)</td>
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<tr>
<td>EVS-SW24</td>
<td>Adds 24 switches to the 5820XL-EVS or EVS-RCU</td>
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Possible Concerns and Objections

1. **What if we need customized messages?**
   The 5820XL-EVS allows messages to be customized to fit the needs of the installation. Custom messages can be recorded via the on-board microphone, sound files (i.e. wav files) sent from a computer, or messages from existing 5820XL-EVS installations via Voice Loader software that is free of charge on the Silent Knight website.

2. **How do I determine the priority of the ECS messages?**
   ECS message priority should be determined by a risk assessment performed by all stakeholders involved including first responders and building owners/management.

3. **I don’t want to try this control because I know nothing about mass notification.**
   One programming option turns off all ECS features but still allows amplifiers to be added. You do not have to use this panel only in mass notification/emergency communication applications. You can use the 5820XL-EVS as a fire alarm control and voice evacuation system.

Where can I learn more about the new 5820XL-EVS?

- Attend the FREE Fire Drill training course that includes an overview of the 5820XL-EVS. Check out the Silent Knight training schedule at [http://www.silentknight.com/htmfiles/schedule.html](http://www.silentknight.com/htmfiles/schedule.html)

- Product information and documentation, including a sell sheet to use with building owners, can be found at [http://www.silentknight.com/products/5820xl_EVS.html](http://www.silentknight.com/products/5820xl_EVS.html)

- Local Silent Knight Regional Sales Managers can provide a demonstration. Find your RSM and contact information at [https://www.silentknight.com/contact/Pages/Sales-Regions.aspx](https://www.silentknight.com/contact/Pages/Sales-Regions.aspx)