

Class A Wiring

Class A wiring enhances the resilience of SmartCommand by maintaining communication even if a cable is damaged during an emergency. By providing a redundant signal path, the system can continue operating past a wiring fault, helping ensure emergency calls are not lost when they matter most.

In life safety environments, wiring faults can occur during the very events the system is designed to support. Class A wiring preserves communication pathways during fire, physical damage, or disconnection, adding an extra layer of fault tolerance when reliability matters.



Maintains communication through a wiring fault, allowing calls to continue even if a cable is compromised.



Adds system survivability during fire or physical damage when failures are most likely to occur.

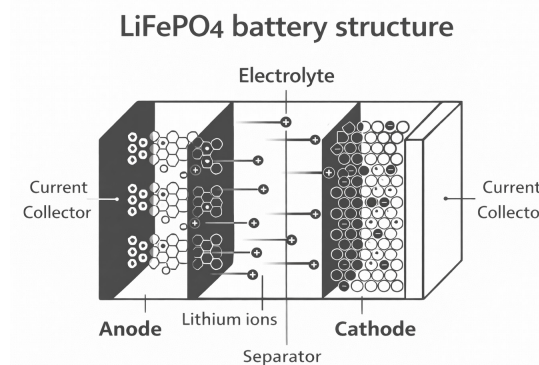


Supports higher-risk and regulated environments where resilience and redundancy are prioritized.

★ *Class A wiring is an available option.
Not all SmartCommand system components require Class A wiring.*

LiFePO₄ Technology

SmartCommand incorporates Lithium Iron Phosphate (LiFePO₄) battery technology as the system's backup power source. LiFePO₄ batteries are a lithium-based energy storage technology designed to provide stable, reliable power for life safety communication systems during utility power loss.



- ★ Provides reliable backup power during utility outages to keep emergency communication systems operational.
- ★ Delivers longer service life and improved safety performance compared to traditional battery technologies.
- ★ Reduces overall system weight to support easier installation and lower wall mounting requirements.

U.S.-based Support

AVIRE proudly operates across the United States, with key offices supporting our customers, partners, and projects from coast to coast. Whether you need product guidance, technical support, or code compliance expertise, our teams are ready to help.

Contact our **Life Safety Specialists** to discuss system design, installation options, and project requirements.



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SmartCommand System for Two-Way Communication (Area of Refuge)



A centralized communication system for emergency response that enables code-compliant, two-way voice connectivity between designated safe locations and on-site command centers.

ADA, IBC/ICC, NFPA 72, NFPA 101, and UL 2525 compliant.

Overview

Centralized response when every second counts!

The RATH® SmartCommand System is an advanced two-way emergency communication solution designed for multi-story buildings. Built for large or complex facilities, SmartCommand manages up to 128 call boxes and provides automatic location identification, real-time call prioritization, and continuous system supervision.

KEY BENEFITS:

- ★ Centralizes two-way emergency communication between designated safe spaces and on-site command locations for faster, coordinated response.
 - ★ Scales easily from small to large multi-story buildings with support for up to 128 call boxes.
 - ★ Designed to meet ADA, IBC/ICC, NFPA 72, NFPA 101, and UL 2525 requirements for emergency communication systems.
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- ★ Daisy-chain and Class B wiring reduces cabling and labor time, significantly lowering installation costs.
 - ★ Provides automatic location identification and real-time call prioritization to improve response speed and situational awareness.
 - ★ Supports complex building designs with flexible system architecture and optional Class A wiring that improves system survivability, reliability, and code compliance confidence.

How It Works



- 1 Phone Line In**
Provides the external communication path that connects SmartCommand to the response center or monitoring service for emergency call handling.
- 2 Control Unit**
Acts as the central hub of the SmartCommand system, managing call routing, supervision, diagnostics, and overall system status.
- 3 Call Commander**
Provides a centralized interface that allows responders or staff to receive, manage, and communicate with active emergency calls.
- 4 Call Boxes**
Allows occupants to initiate two-way emergency communication from designated locations throughout the building during an emergency.
- 5 Battery Backup Unit**
Delivers backup power aligned with 24-hour standby and 4-hour active operation requirements.
- 6 Cable / Wiring**
Connects all system components to ensure reliable communication and system status. Available in Class A or Class B topology.
- 7 Signage**
Identifies emergency communication locations and provides clear instructions to guide occupants during use.
- 8 Off-Site Monitoring**
A third-party monitoring service responsible for receiving and responding to emergency calls.

System Components

CONTROL UNIT(BOSS)



- Supervises system-wide status and events in real time.
- Provides visual, audible, and fault notifications.
- Supports inspection readiness and streamlined maintenance.

	BOSS 3400	BOSS 3400A	BOSS 3400-64A	BOSS 3400-128
Max # of Call Boxes	32	32	64	128
Wiring Configuration	B	A	A	B
Max # of Wiring Circuits	2	1	2	4

CALL COMMANDER (3200 SERIES)



- Central interface for answering and managing emergency calls.
- Visual and audible alerts support efficient call handling.
- Available in flush, surface, or desk-mount configurations.

CALL BOXES (3200 SERIES)



- Integrate seamlessly with SmartCommand system components.
- Available in flush, surface, or exterior mount options - with or without protective covers.
- Clear indicators support intuitive use during emergencies.

BATTERY BACKUP UNIT (3100)



- Maintains operation during power outages.
- Long-life LiFePO₄ battery technology for safety and reliability.
- Battery and power status monitored through the BOSS Controller.