

E3 Series™ Sales Guide

Expandable Emergency Evacuation

Introduction

Product Briefing

Selling Strategies

Features and Benefits

Competition



by Honeywell

1. Introduction

The E3 Series is a pioneering line of intelligent, addressable fire alarm panels with networking and digital audio capabilities. FCI has taken a totally fresh approach by transforming the classic fire panel into an Expandable Emergency Evacuation system.

The product line serves an extremely wide range of applications. Just a few modules and cabinets can be easily configured, mixed and matched to build a simple, stand-alone fire alarm control panel or a complex, sprawling mass notification system. It is the closest thing yet to a one-size-fits-all control panel for the fire alarm industry.

The E3 Series is completely new. It is the first fire alarm system designed from the ground up to meet or exceed the latest UL-864 (9th Edition) and NFPA 72 requirements for faster response time and panel security. It uses the latest 32-bit RISC processor and components to maximize product lifetime and minimize risk of obsolescence. Plus, since system reconfiguration and expansion is simple as a facility grows and renovates, it's the best value over the life of the building.

The backbone of the E3 Series is a high speed Arcnet™ network. All control and communications travel over a single pair of wires or fibers which are isolated at each node. Moreover, since voice messages are distributed throughout the network they continue to be broadcast even if parts of the system are compromised. This distributed network design enhances survivability in catastrophic situations and protects building occupants better.



E3 Series product range: (clockwise from top) "D" size voice evacuation system, "C" size transponder, "B" size analog panel, "C" command center

2. Product Briefing

Building Block Architecture

FCI's highly scalable and efficient "building block" architecture reduces the amount of equipment typically needed for a job while delivering the latest technology. Like other high-technology devices, advanced object-oriented software allows smaller, more efficient integrated circuits to do the work of multiple old-style relay and pc boards. Totally new system modules include:

- ILI-MB-E3 intelligent loop interface motherboard
- LCD-E3 LCD keypad display
- RPT-E3-UTP (-FO) network repeater, unshielded twisted pair (or fiber)
- DACT-E3 digital alarm communication transmitter

A new line of easy-to-use cabinetry comes in three sizes and are trim yet elegant enough to be an understated complement to any interior design.

Operational Overview

A 625K system network seamlessly integrates network control, multi-channel voice evacuation, paging and firefighter telephone resulting in a system that's easy to design, install and maintain. All system modules connect to and communicate over this single network. The network supports up to 64 nodes in any combination. Small, medium or large systems can be constructed with any mix of the same four major assemblies:

- E3 analog panel
- E3 command center
- E3 transponder
- NGA network graphic annunciator

The analog panel typically holds the intelligent loop interface mother board and LCD display. One or more command centers can be included to provide an intuitive user interface to the remainder of the system allowing detection and control, paging control, auxiliary control, and fire fighter phone operation.

The transponder can also include detection and control, as well as message generation and amplification, and fire fighter phone interfacing. Audio messages of up to 3 minutes each can be pre-recorded and stored as digital files. These messages can be automatically directed to various areas in a facility, decoded, amplified and sent out to the speakers.

The touch screen (NGA) is an extremely intuitive operator interface. During an emergency the first responder is provided with all information relating to the activated device, and only the controls that are available to respond to the immediate event are displayed. Other functions related to service and support are suppressed to avoid confusion, allowing faster response to an emergency.

3. Selling Strategies

Target Applications

- Merchant
 - Strip malls
 - Restaurants
 - Banks
 - Retail stores
 - Department stores
- Living facilities
 - Apartment complexes
 - Condominium
 - Gated communities
 - Hotels/Motels
- Municipal buildings
 - Legislative building
 - Town/City halls
 - Court buildings
 - Fire stations
 - Police stations
- Office buildings
 - High rise
 - Office parks
- Education
 - Elementary schools
 - High schools
 - Middle schools
 - College campus buildings
 - Administration facilities
 - Dorms
- Healthcare
 - Small hospital
 - Multi-building hospitals
 - Veterans hospitals
 - Nursing homes
 - Assisted living
 - Single building
 - Multi building
- Commercial/Industrial including
 - Manufacturing
 - Telecommunication facilities
 - Small to large warehouse facilities
 - Transportation hubs
 - Public utility facilities

Customer Profiles

Building Owner or Occupant

In many cases the building owner or occupant is directly responsible for selecting and maintaining fire protection, security and building management systems. Often this is accomplished through service and maintenance contracts to outside vendors.

Property Manager

An organization typically under contract by a building owner or organization to maintain fire protection, security and building management systems. This is done both by property management resources and through service and maintenance contracts to outside vendors. Property management organizations normally have several properties consisting from single buildings to large complexes, office parks, or campuses.

Electrical Engineers

While not the end-user of fire alarm equipment, the Electrical Engineer or Fire Protection Engineer will often be hired by building or business owners to design and specify a fire alarm system. They make most decisions and recommendations to the owner on which system to use.

Qualifying Questions/Customer Concerns

1. **Q.** Our budget is not big enough to replace the entire system.

A. E3 is a fully scalable system that can be expanded over time to meet practically any budget. Using conventional interface modules (multi-mods), existing detectors and devices can be interfaced with your new system. As budget allows, additional panels and field equipment can be added.

2. **Q.** We have future plans to add an additional fire command center at the rear of the building. What will be required to do this?

A. Because E3 uses a single pair of wires or fiber to carry voice, data, and phone signals, adding additional command centers or re-locating an existing one is simple and cost effective. Other systems may require a dozen or more cables with larger conduit and associated labor to perform the same task.

3. **Q.** What value does distributing the messages and amplifiers in remote transponders provide?

A. Traditional voice evacuation systems utilize centralized messaging and control. During day-to-day operations and fire drills these systems may perform fine, but during an emergency condition, a single component or wire failure could prevent the messages from transmitting. Some codes require a sprinkler head to be placed over the command center. However, if it actually activated, it could wet the panel internals and render them useless. Building occupants practice fire drills with specific messages with the appropriate action for specific emergencies. The loss of messaging or a "default tone" can potentially confuse them resulting in no or an incorrect response.

By distributing the system including Detection, Amplification, and Messaging in a peer-to-peer fashion, and incorporating style-7 riser wiring, a loss of the command center or even part of the riser wiring would not affect the remainder of the facilities ability to correctly respond to an emergency.

Selling Points

- Expandable and scalable
 - System grows with your project or facility
- Integrated high speed network
 - High speed networking is built in each major component
- Supports a wide range of special application sensors such as;
 - High sensitivity laser sensor
 - Multi-criteria sensor (MCS-ACCLIMATEF)
 - Dirty environment sensor (ASD-FILTREXF)
- All riser functions are supported on a single pair of wire or fiber network
 - Reduces wiring and installation costs
 - Provides additional protection from shorts and opens
 - Allows for easier system additions
- Optional touch screen graphic interface
 - Intuitive interface for ease of operation and maintenance
- Designed for small to large installations
 - E3 Series "building blocks" can be configured to protect small, simple buildings or added together to safeguard a large, complex campus or high rise construction
- Integrated multi-message audio
 - No additional cost to add messages
- Distributed messaging
 - Ensures that the correct message will be transmitted even during most catastrophic events

4. Features and Benefits

Feature	Benefit
625K Baud Arcnet Network	Robust, highly survivable Style 4 or 7 architecture
Single Pair Wire or Fiber Network	Drastically reduces installation and wiring costs, traditional systems require separate riser conductors for network, each channel of audio, and fire fighter phone
Auto Programming	E3 can quickly identify all devices in the system and provide basic system functionality
Velociti™ Device Support	Allows for quick detection and notification of emergency conditions
40 Character Custom Device Labels	Allows for more precise device location descriptions
4100 Event History Log	Provides extended valuable information for service or post emergency evaluation
Bios Flash	Features and enhancements can be added without the need for changing firmware chips or hardware
Advanced Boolean Logic Programming	Reduces equipment costs by providing software solutions to complex configurations
Unique Survivability	All audio functions including messages are fully distributed and continue to provide protection even during potential command center or riser damage.

5. Competition

Features	FCI E3	EST EST-3	Siemens MXL	SimplexGrinnell 4100U
Maximum SLC Loops	128	10	14	10
Maximum Devices Per SLC	199	250	120	127
Maximum Analog Addressable devices	12,675	2500	2000	1000
Analog Detectors with Verify	✓	✓	✓	✓
Automatic Detector Test	✓	✓	✓	✓
Detector Sensitivity Read	✓	✓	✓	✓
Day/Night Sensitivity	✓	✓	✓	✓
Environmental Drift Compensation	✓	✓	✓	✓
Pre-Alarm Levels	3	3	Level Set by Programming	3
Alarm Sensitivity Levels	7	5	Level Set by Programming	7
Sensitivity Range	.02-4.0%	.61-3.77%	Level Set by Programming	.2-3.7%
Support Specialty Sensors	MCS Acclimate	IPHS	Fire Print (FPI 1)	No
Optional Harsh Environment Smoke Detector	Filtrex	No	No	No
Optional Laser Detector	✓	No	No	No
Device Address Switch	Decimal	Electronic	Electronic	Binary
High Capacity Digital Communicator	DACT-485	ModCom	Uses CXL Command Center Monitoring	SDACT
Dual Detector LED's for 360° view	✓	No	No	No
Detector Electronics Location	Head	Head	Head	Head & Base
Backlit LCD Display	80 Character or Display-less	160 Character or Display-less	80 Character or Display-less	80 Character
Event History	4100	600 alarm/600 trouble	800 alarm/800 trouble	300 alarm/300 trouble
Optional ¼ VGA Touch Screen Annunciator	✓	No	No	No
One Man Walk Test	✓	✓	✓	✓
And, Or, Not, Time Control by event	✓	✓	✓	✓
Peer-to-Peer Network Interface	✓	✓	✓	✓
On-Site Digital Message Programming	✓	✓	✓	No
EIA-485 Graphic Annunciator Driver	✓	✓	✓	✓



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