

Area of Rescue / Refuge Assistance Digital Emergency Communication System

Designed for:
IBC 2012,
NFPA Life Safety 101,
and ADA 2010



1-8 Stations Per Panel

Expandable up to
255 Stations



Connection now available for
2 way voice communication from
the station to an
Emergency Call Center.

Main Control Panel shown.
Add up to four remote panels and up to
35 expansion switches.

Component Descriptions

Component	Model	Description	Size
Control Panels	A-4800M	Main Panel - Mandatory	20"H x 20"W
	A-4800R	Remote Panel - Four Optional	
Expansion Switches	ES-4808	Switch - 35 Optional	20"H x 20"W
Call Station	4800V	Call Stations - 255 Max	4"H x 4"W x 3.5"D
Back Boxes	BB-48	One Each for A-4800M & A-4800R Control Panels	18"H x 18"W x 3.25"D
	BB-49	For ES-4808 Expansion Switch	18"H x 15"W x 4"D
Power Supplies (Select one, or multiple)	B-5243B	Battery Back-Up/Power Supply 24VDC 3.3 Amp Supplied with (2) 12Volt/7 Ah Batteries	9.50"H x 14.25"W x 4.50"D
	B-5248A	Battery Back-Up/Power Supply 24VDC 8 Amp Supplied with (2) 12Volt/7 Ah Batteries	11.25"H x 15.75"W x 4.50"D
Signage	Customer Specific	Call Factory for Mandatory & Optional Signage Required for Area of Rescue/Refuge	Varies

Specifications

The 4800 Digital Emergency Communication System is designed to provide fully supervised, two-way voice communication, between each Call Station and the Main Control Panel. Optionally, up to (4) Remote Control Panels can also be installed throughout the building to allow alternate locations to respond to a call for assistance. An internal modem, operating at the Main Control Panel, connected to a Analog "POTS" dedicated telephone line, provides an automated-timed dial-out capability to a monitoring location. The 4800 Digital Emergency Communication System shall poll (supervise) all the Call Stations, Control Panels and Expansion Switches on a continuous basis, to identify line faults and defective equipment. Activated Call Station locations and fault information will be alerted and displayed at the 40 character LCD four line display, at each Control Panel location. Each 4800 V call station is equipped with an auxiliary set of momentary form "C" contacts that can be used to activate external devices, such as a camera, strobe, or tone device.

Wiring and Power Requirements

The 4800 Digital Emergency Communication System utilizes the following three types of wiring.

- Pair #16 AWG, stranded, non-shielded cable, from the Power Supply to the Control Panels and Field Switches at a maximum distance of 478 feet.
- Pair #22 AWG, stranded, non-shielded cable, circulating from all of the Power Supply's to the Power connections on the Control Panels.
- Cat5e cable, Standard straight - through, TIA/EIA 568A or TIA/EIA 568B, from the Control Panel and Field Switches, to the Call Station's and to the phone line

The Power Supply operates at 24 VDC with an amperage of either 3.3 or 8.0.

Principles of Operation

ACTIVITY	CONTROL PANEL	CALL STATION
Standby mode	LED light signals power on	Intermittent 10 second flash
Alarm sent from call station	LED light flashes, intermittent tone & the display shows where the call originated from	Steady LED light and one time tone
Alarm acknowledged/activated at the control panel	Steady red LED light	Button flashes with one time tone signal
Intercom on	Use the up/down button to remove the call to the top line, then press the right arrow to call using the handset to talk.	Hands free voice communication to the control panel and the calling station
Phone call to an offsite emergency center	Dials to an outside location	Hands free voice communication from the calling station
Intercom off	In standby mode, LCD display shows the calls answered	Standby mode
System fault	The LCD displays system fault locations with a flashing red LED and intermittent tone	Button light will be off

