

New

Conventional Fire!



 FIRE·LITE[®] Alarms
by Honeywell

Honeywell
1

Honeywell Power Products

Agenda

- Who is Fire-Lite Alarms
- Why Conventional?
- Definitions and Hardware
- References – get more information
- Questions



Who is Fire-Lite Alarms

- Small to Mid-Sized Systems Leader
- Simple to Install, Service & Troubleshoot
- Innovative and Cost Effective
- Easy Access to Information & Training



MS-5UD-3 & MS-10UD-7

Conventional "Programmable" Systems



MS-5UD & MS-10UD

Standard Features:

- Universal Common Enclosure
- Built-in Digital Alarm Communicator Transmitter (DACT).
- Upload/Download (local or remote)
- System Sensor i³ Detector ready
- On-board Form-C Relays (alarm, supervisory, trouble)



MS-5UD & MS-10UD

Standard Features:

- Style B (Class B) Initiating Device Circuits (IDCs)/ Style Y (Class B) NACs
- Built-in Programmer
- ANN-BUS connections
- 80-Character LCD display (backlit)
- Local Piezo sounder (alarm, trouble, supervisory, maintenance)



MS-5UD & MS-10UD

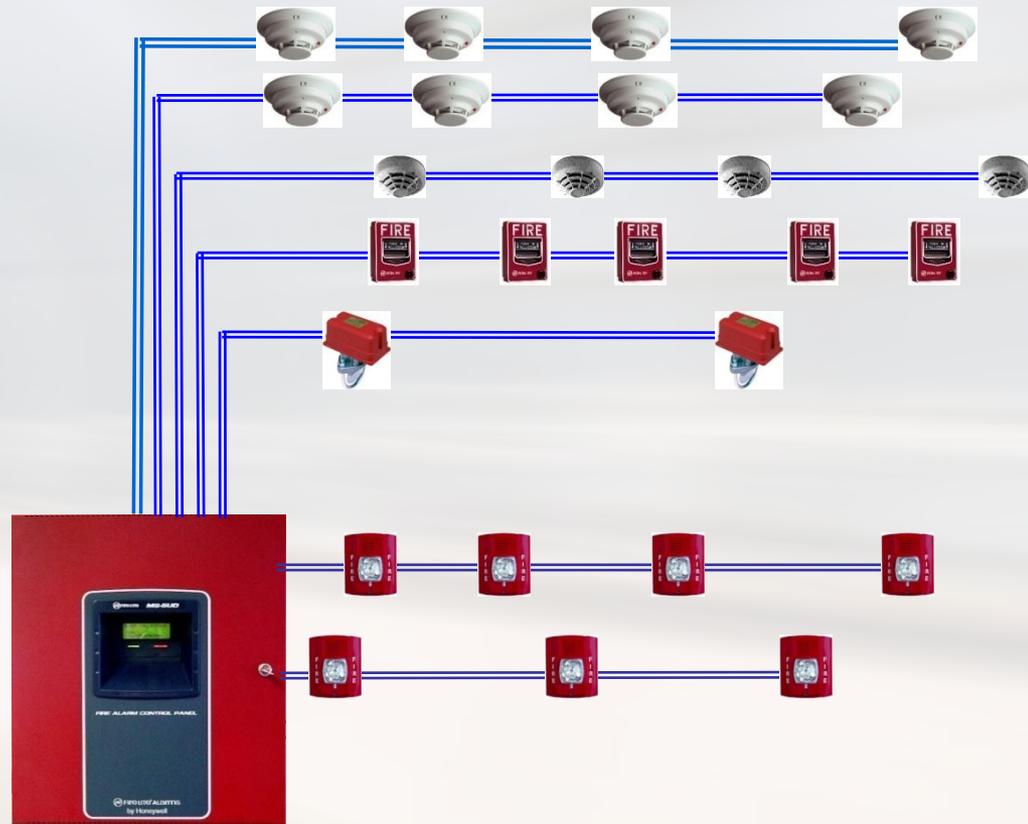
Standard Features:

- Multiple Knockouts for separating Power-limited / Nonpower-limited wiring
- Optional Dress Panel (DP-MS5/10)
- Optional Trim ring for semi-flush mounting
- LED & LCD Annunciators
- 24 Volt resettable & nonresettable Auxiliary power outputs
- Alarm Verification



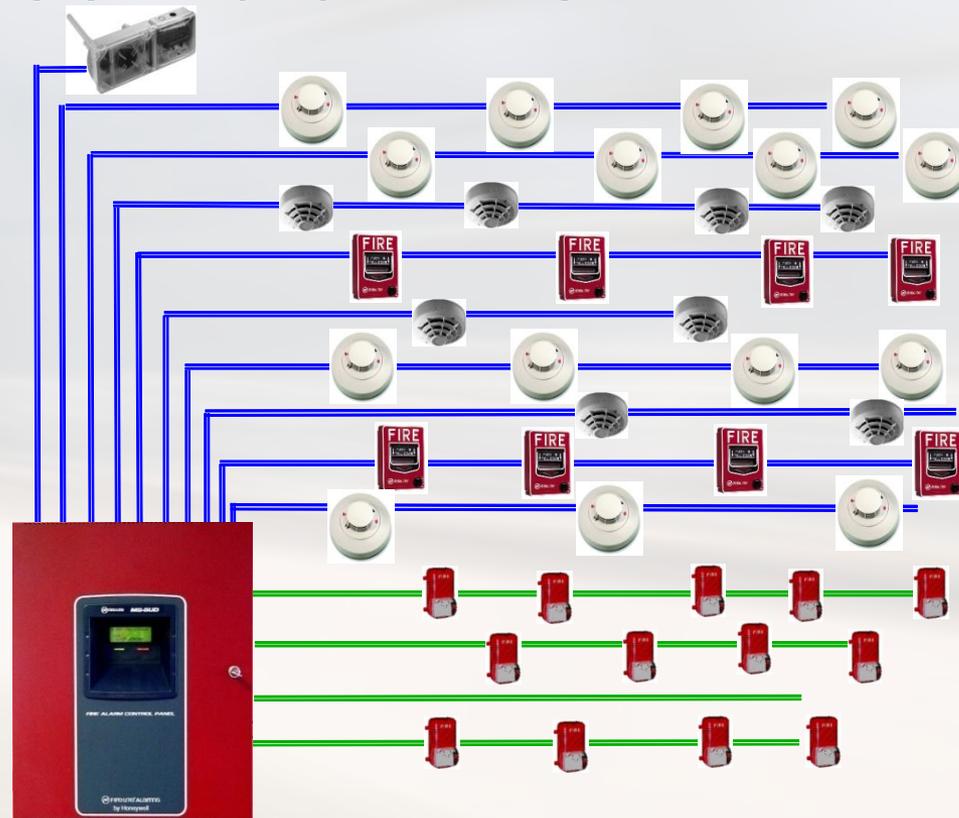
MS-5UD, 5 Zone Conventional Panel

- Five programmable IDCs
- Four NACs (3.0 amp)
- 3.5 amps total current
- Alarm Zones 1-5
- Fits two 18 AH batteries
- Detectors and normally-open contact initiating devices activate audible and visual signaling devices.



MS-10UD 10 Zone Conventional Panel

- Four NACs Style Y (Class B) (3 amps per max.)
- Ten Programmable IDCs
- 7.0 amps total current
- 1 -10 Alarm Zones



- Detectors and normally-open contact initiating devices activate audible and visual signaling devices.

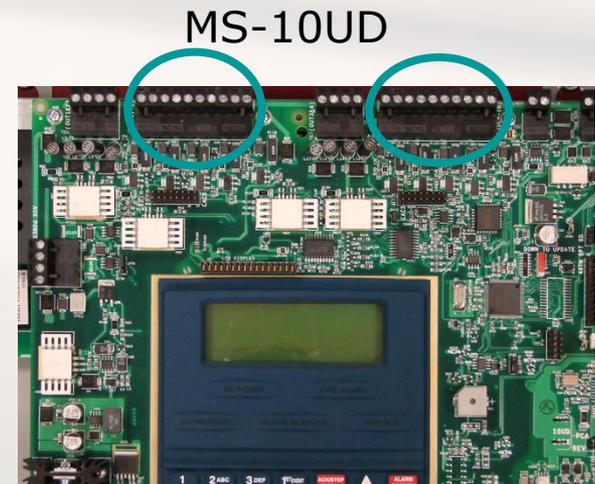
MS-5UD & MS-10UD Onboard Circuits

Initiating Device Circuits

- Alarm current, 15mA minimum
- Standby current, 4mA
- Supervised and power-limited
- End of Line Resistor – 4.7K



MS-5UD



MS-10UD

MS-5UD & MS-10UD Onboard Circuits

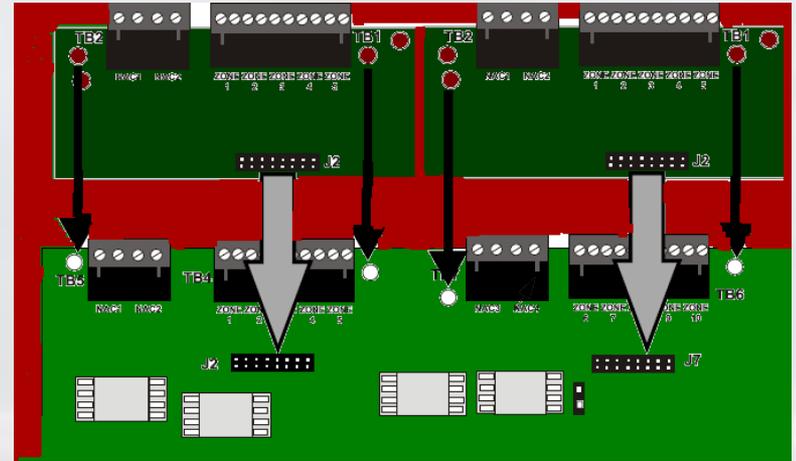
Notification Appliance Circuits

- Four Class B or Class A NACs
- Synchronization for
 - System Sensor,
 - Wheelock,
 - Gentex,
 - Faraday
 - Amseco
- 2.5 or 3 amps (MS-10UD-7)
- Programmable for:
 - Auto-silence; Silence Inhibit - Enable/Disable
 - Silenceable; Non-Silenceable; Selective Silence
 - Optional Coding - Temporal



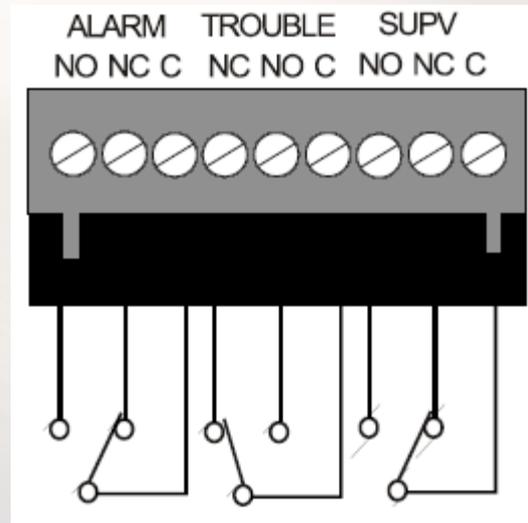
CAC-5X Class A Converter Module

- Plugs into Main Controller Board
- Convert five Class B Initiating Device Circuits to Class A
- Convert two Class B Notification Appliance Circuits to Class A
- MS-10UD requires two CAC-5X modules



Onboard Form C Relays

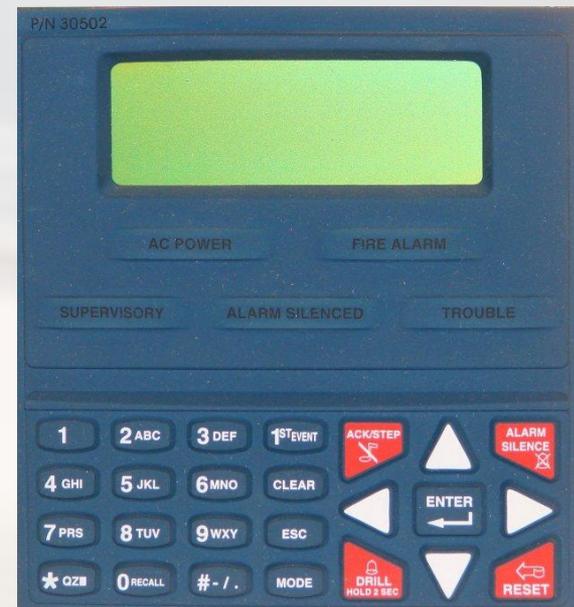
- Trouble Relay (Fail-safe)
- Alarm Relay
- Supervisory Relay
- Contact Ratings: 2 amps @ 30VDC, 0.5 amps @ 30 VAC



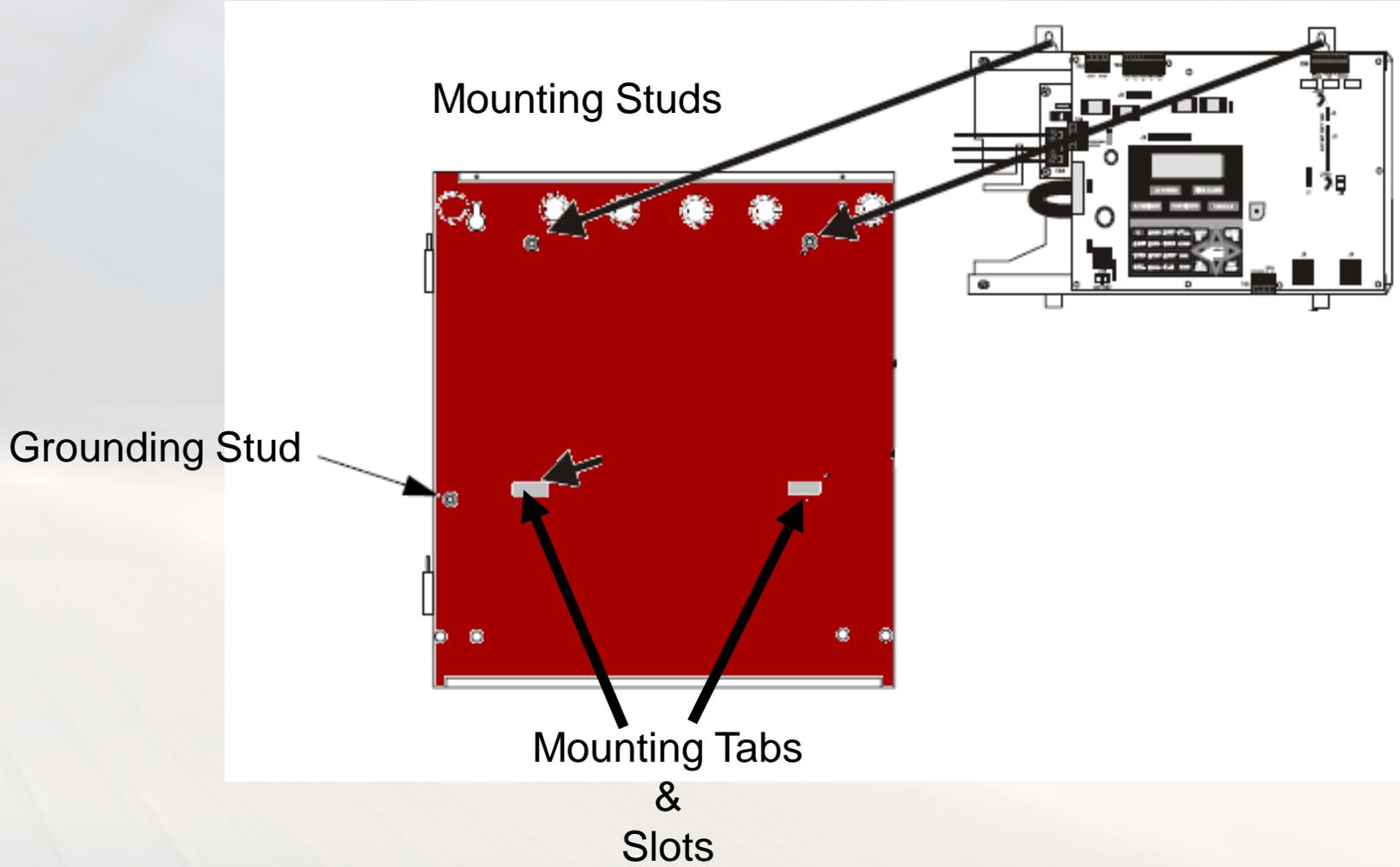
User Interface

LCD Display and Alpha-numeric Keypad

- 80 Characters (4 rows 20 characters)
- Function Keys, Silence, System Reset (Lamp Test), Drill and Acknowledge/Step keys
- LED indicators
 - Fire Alarm (Red)
 - System Trouble (Yellow)
 - AC Power On (Green)
 - Supervisory (Yellow)
 - Alarm Silenced (Yellow)
- LCD Backlight is disabled during AC power loss to conserve batteries

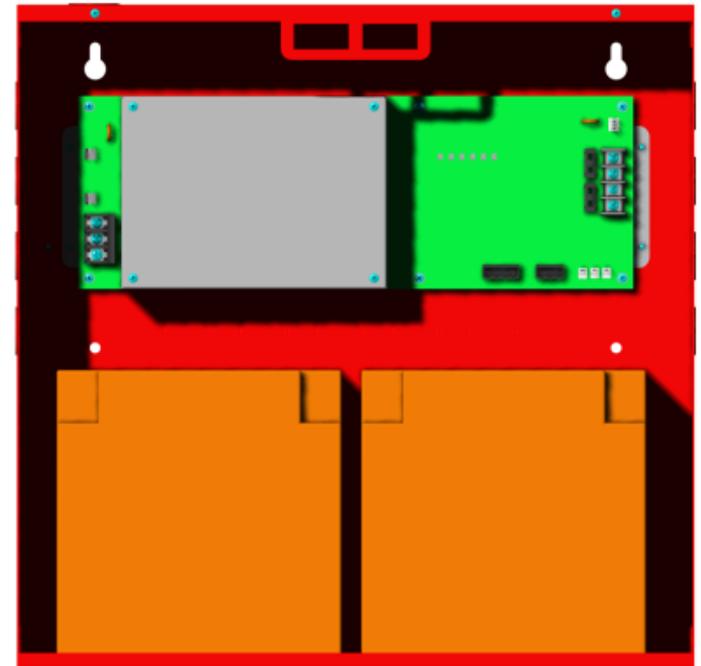
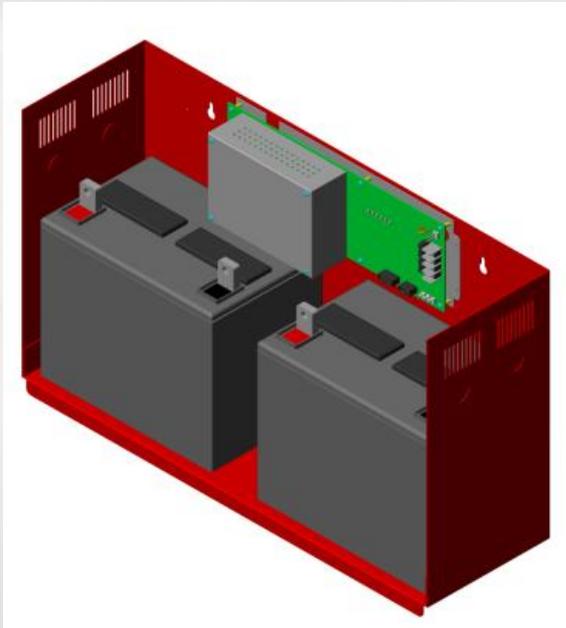


Chassis Mounting



Secondary Power Source

- MS-5UD-3 can charge up to 18 AH
- MS-10UD-7 charges up to 26 AH
- The MS-5UD and MS-10UD enclosure holds two 18 AH batteries.
- Larger batteries require a battery box such as the BB-55



Conventional Detectors

- Photoelectric
- Photoelectric with Heat
- Ionization
- Heat
- Heat with Rate of Rise
- Duct
- Duct with Relay
- Beam



The i³ Series Detectors

- The i³ line consists of 2- and 4-wire detectors, offered with or without a fixed 135d thermal sensor.
- As its name implies, the i³ series is based on three guiding principles:
 - Installation ease,
 - Intelligence, and
 - Instant inspection.



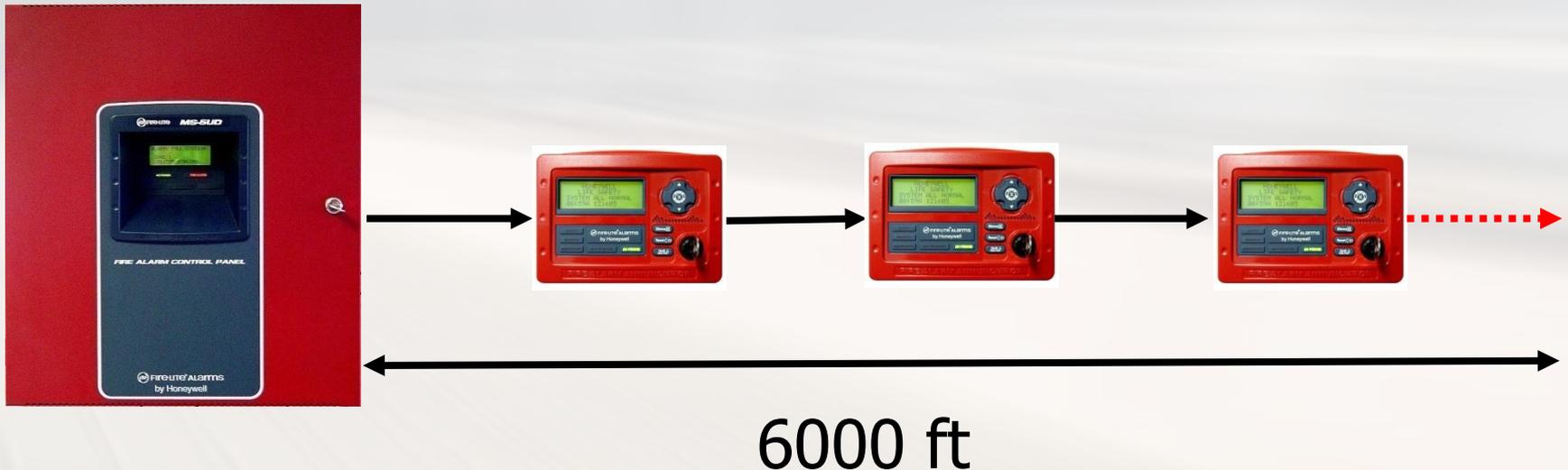
The i³ Series Detectors

- Transmit Maintenance Trouble Signals to FACP
- Supervisory "Freeze" Signal when ambient Temperatures fall below the Detector Rating
- Drift Compensation features to reduce maintenance.



ANN-BUS Annunciator Circuit

The Control Panel's four-wire (2 power + 2 data) ANN-BUS annunciator circuit (EIA-485) connects a total of 8 peripheral devices up to a maximum 6,000-ft.



ANN-BUS Peripheral Devices

ANN-80 Remote LCD Annunciator

- EIA-485 communications via 2 data wires
- 2 wires for 24 VDC power
- Enclosure supervised for tamper
- Auto-Configured over Control Panel's ANN-BUS



ANN-BUS Peripheral Devices

ANN-80 Remote LCD Annunciator

- 80-Character Display (4 lines 20 characters each)
- Switches for the remote execution of Acknowledge, Alarm Silence, Reset and Drill functions.
- Access controlled by keyswitch



No special back box needed! Mount with a single gang, double gang backbox or 4" square electrical box.

ANN-BUS Peripheral Devices

ANN-LED & ANN-RLED

Remote LED Annunciator

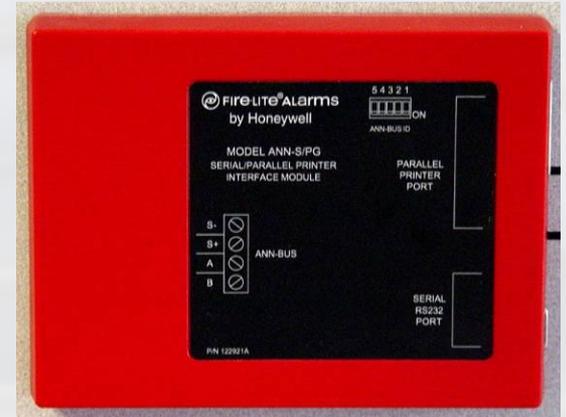
- Provides LED annunciation of general system faults and input zones/points.
- Programmable for Alarm (red), Trouble (yellow) & Supervisory (yellow) or just Alarm annunciation.
- ANN-RLED provides alarm (red) indicators only for up to 30 input zones or addressable points.



ANN-BUS Peripheral Devices

ANN-S/PG Serial/Parallel Interface

- connection of a serial or parallel printer
 - real-time log of system events
 - detector status reports
 - event history.



ANN-BUS Peripheral Devices

ANN-I/O

LED Driver Module

Can be used for:

- Interfacing to a Graphic Annunciator.
- Triggering Relays



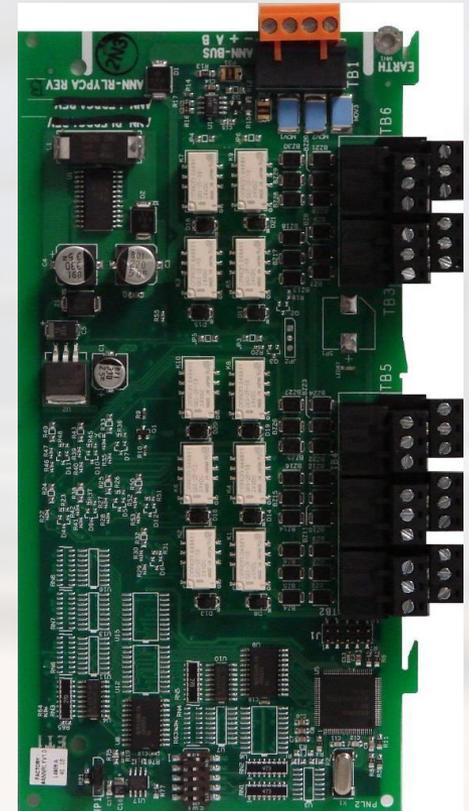
ANN-BUS Peripheral Devices

ANN-RLY Relay Module

- Provides 10 programmable Form-C Relays.
- Programmable for the following functions:

Alarm	Process Mon AR
Trouble	AC Loss
Supervisory	Hazard
Supervisory AR	Medical
Comm Fail	Silenceable Alarm
Process Mon	Zone Assignment

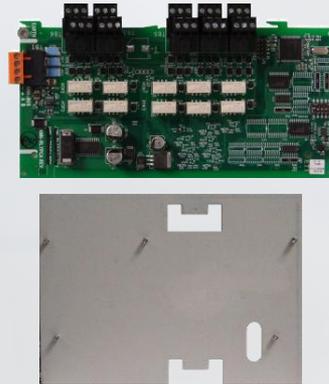
- Can be mounted on main board chassis or in the battery area of enclosure using an ANN-MBRLY mounting bracket.



ANN-RLY Mounting Options

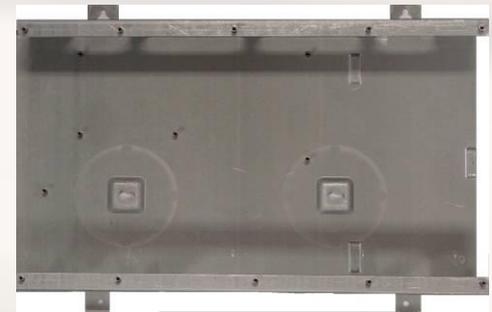
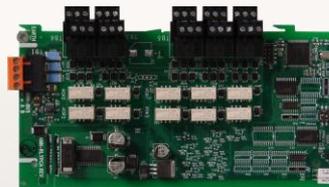
Option 1

The ANN-RLY can mount inside the common enclosure using an ANN-MBRLY bracket.



Option 2

The ANN-RLY can mount directly to the 2 slots in this chassis using the supplied stand-offs.



ANN-RLY Relay Module Mounting

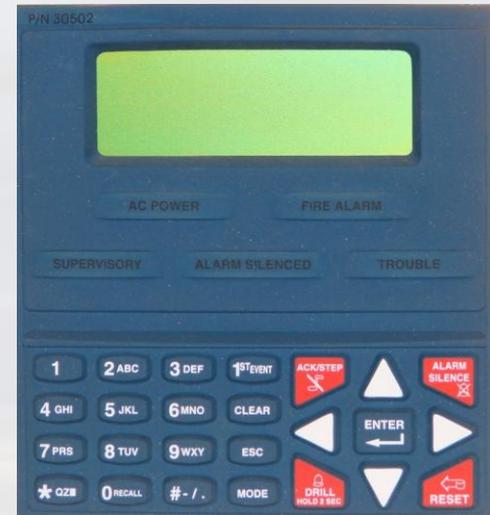
Relay Option Module Enclosure (ROME)

- Includes one ANN-RLY module
- Space for one additional ANN-RLY or one addressable Multi-Module
- Can be installed up to 1250 ft. from FACP



MS-5UD & MS-10UD Programming

- Fully programmable from the integral keypad
- or with a PC using optional PS-Tools Upload/Download software via USB connection or remotely via modem.



Operating System Software

- Built-in Programmer
- Zone Types/Descriptions
- System Alarm Verification (smoke only)
- PAS and Pre-signal
- Audible/Visual Synchronization/Coding
- 256 Event History
- Real-Time Clock

Operating System Software

The MS-5UD & MS-10UD panels offer three levels of user interaction

- **Read Status Mode**
 - No password required
- **Programming – Master Mode**
 - User programmable 5-digit password
- **Programming – Maintenance Mode**
 - User programmable 5-digit password

Read Status

- Zones (enabled, disabled and installed)
- Power (view Battery, NAC, 24 VDC outputs...)
- Trouble Reminder (turn ON or OFF)
- Timers (view global time settings for PAS, Pre Signal, Waterflow and AC report delay)
- NACs & Relays (programmed selections)
- View History
- Annunciators/Bus Modules installed
- Printer Settings
- Print (History)

Programming - Master Mode

- Input Zones (Circuits)
- NACs
- Relays
- Change both passwords
- Load and clear program
- Change Main Screen Banner

Programming - Maintenance Mode

- History (view and erase)
- Walk test
- Change panel Time and Date
- Input Zone Setup (enable/disable)

MS-5UD & MS-10UD Programming



SYSTEM ALL NORMAL
10:00A 092105

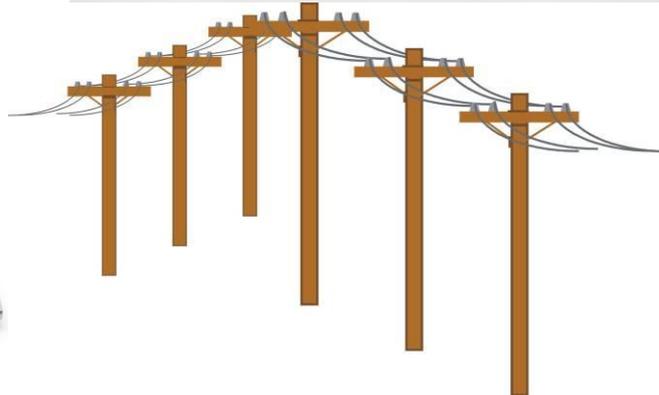
PS-Tools Upload/Download Software

- Create Customer Database
- Configure Input, Output and option modules
- Set Fire Panel System Information and settings
- View troubleshooting data
- Upload/Download panel information
- Generate configuration and data reports
- Enable/Disable individual Zones
- Custom label or use adjectives and/or nouns included
- Configure ANN-BUS Devices
- Supports direct connection via USB port



PS-Tools Upload/Download Software

Alternately, PS-Tools can use a computer with a modem over a standard phone line connection to communicate remotely via the MS-5UD's and/or MS-10UD's onboard DACT/Modem.



How Fire-Lite Can Help

- Products
 - Very Popular Fire Alarm Product Line
 - Non-proprietary model – no special “club”
 - 59 years experience – USA designed & built
- Training
 - Free, nationally conducted, locally available
 - www.firelite.com for all detailed information
- Support
 - Web, e-mail and voice support
 - Sales team that are consultants



More Sources of Info

- NFPA 70 - National Electrical Code
- NFPA 72 - National Fire Alarm Code
- NFPA 101 - Life Safety Code
- NFPA 70 - National Electrical Code Handbook
- NFPA 101 - Life Safety Code Handbook
- NFPA Fire Protection Handbook



Summary

- Conventional fire alarm is a good option for an installer
- Fire-Lite offers two excellent conventional panels:
 - The MS5-UD-3 and MS10-UD-7
- These panels are flexible and powerful yet easy to install and program – they are truly the fire alarm EASY button!
- There are good resources for further education



Thank you!

A recording of today's webinar will be posted to www.firelite.com

Questions?

Please submit by typing into the “questions” box on the right side of your screen.

