



PERMIT #: FIRE-26-3

ISSUE DATE: April 3, 2026

General Questions: 503.537.1240
Email Address: building@newbergoregon.gov

FIRE SPRINKLER PERMIT BUILDING DEPARTMENT

SITE ADDRESS: 101 N MERIDIAN ST Newberg, OR. 97132

PARCEL #: R3219AA 06400

TYPE OF WORK: Fire Alarm

OCCUPANT

LOAD: N/A

DETAILED DESCRIPTION OF WORK: Modify an existing Fire Alarm System

PERMIT TYPE: Commercial

ZONING: C-3

PROJECT NAME (if applicable):

TOTAL PERMIT FEE'S PAID: \$530.88

AUTHORIZED PERMIT HOLDERS

APPLICANT: Jamie Doyle

PHONE: 503-627-0100

MAILING ADDRESS: 5863 Lakeview Blvd Lake Oswego, OR. 97035

CONTRACTOR: POINT MONITOR CORP

PHONE: 5036270100

MAILING ADDRESS: 5863 LAKEVIEW BLVD SUITE 100

CCB #: 135901

ADDITIONAL INFORMATION/CONDITIONS OF APPROVAL/COMMENTS

ALL WORK IS TO CONFORM TO THE CURRENT EDITION OF THE CURRENT EDITION OF THE ORSC & OSCC.

INSPECTIONS REQUESTED PRIOR TO 7AM WILL BE COMPLETED THE SAME BUSINESS DAY.

INSPECTION RECEIVED AFTER 7AM WILL BE SCHEDULED FOR THE NEXT BUSINESS DAY.

*Schedule or track inspections at www.newbergor.portal.opengov.com OR
Call 503.554.7714 leave PERMIT # FIRE-26-3, address & type of Insp.*

THIS PERMIT EXPIRES 6 MO FROM ABOVE DATE IF WORK IS NOT STARTED OR IF WORK IS SUSPENDED OR ABANDONED FOR 180 DAYS OR LONGER AFTER WORK HAS COMMENCED.	8.15.150 UNNECESSARY NOISE--PERMITTED EXCEPTIONS. UNREASONABLE NOISE AND EXCEPTIONS.
A copy of the building permit & 1 set of approved construction documents are to be available for review at the work site.	3. The following acts are declared to be per se violations of this section. This enumeration does not constitute an exclusive list: j. Construction or Repair of Buildings, or Excavation of Streets and Highways. The construction, demolition, alteration or repair of any building or the excavation of streets and highways other than between the hours of 7:00 a.m. and 7:00 p.m. on weekdays. In cases of emergency, construction or repair noises are exempt from this provision. In nonemergency situations, the city may issue a permit, upon application, if the city determines that the public health and safety, as affected by loud and raucous noise caused by construction or repair of buildings or excavation of streets and highways between the hours of 7:00 p.m. and 7:00 a.m. will not be impaired, and if the city further determines that loss or inconvenience would otherwise result. The permit shall grant permission in nonemergency cases for a period of not more than three days. The permit may be renewed once for a period of three days or less.
All persons or entities performing work under this permit are required to be licensed unless exempted by ORS 701.010 (Structural/Mechanical), and ORS 693.010-020 (Plumbing).	

NEWBERG CITY HALL

414 E FIRST ST

Web address:
newbergoregon.gov

INSTALL A NEW ADDRESSABLE FIRE ALARM SYSTEM WHICH INCLUDES CENTRAL STATION OFF-SITE REPORTING, SPRINKLER FLOW AND TAMPER VALVE MONITORING, MANUAL PULL STATION, AND SMOKE DETECTOR.

1. THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH 2022 NFPA 72 AND NFPA 70, ARTICLE 760, POWER LIMITED SYSTEMS.
2. FIRE ALARM WIRE INSTALLED IN VERTICAL RUNS AND PENETRATING MORE THAN ONE FLOOR SHALL BE RISER RATED.
3. FIRE ALARM WIRE RUN IN DUCTS OR PLENUMS SHALL BE PLENUM RATED.
4. ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.
5. A SYSTEM GROUND MUST BE PROVIDED FOR EARTH DETECTION AND LIGHTNING PROTECTION DEVICE.
6. DEDICATED BRANCH CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED.
7. CIRCUIT DISCONNECT MEANS SHALL HAVE A RED MARKING, IDENTIFIED AS "FIRE ALARM CIRCUIT".
8. AUDIBLE ALARMS SHALL CONFORM TO SECTION 18.4.4 PUBLIC MODE (2022 NFPA 72).
9. CENTRAL STATION MONITORING SHALL BE DOCUMENTED UPON COMPLETION OF THE PROJECT IN ACCORDANCE WITH SECTION 26.3.4 (2022 NFPA 72).
10. A RECORD OF COMPLETION SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE ACCEPTANCE TEST INSPECTION IN ACCORDANCE WITH SECTION 7.5.6.2 (2022 NFPA 72).
11. A LOCKABLE DOCUMENT STORAGE CAN SHALL BE PROVIDED.

SLC - 18/2
 NAC - 14/2
 24V - 18/2

Wiring diagram for a fire alarm control panel (FACP) showing connections to a NOTIFIER NFW-50X FACP W/INTEGRAL DACT.

The diagram includes a power supply section with a 24VDC source, a 18/2C cable, and a 120 VAC DEDICATED (BY OTHERS) source. It also shows a FA RISER and VAULT section with connections to a 2AIM and 1AIM terminal block, and a BY OTHERS section with connections to a 1WF, 1TS, and 1EOL terminal block.

The FACP is connected to the NOTIFIER FACP W/INTEGRAL DACT via a 120 VAC DEDICATED (BY OTHERS) source.

NOTE: WIRE TO BE FPL, FPLR OR FPLP PER NEC

QTY	SYMBOL	DESCRIPTION	PART #	ROUGH-IN / NOTE	MOUNTING HEIGHT
1		FIRE ALARM CONTROL PANEL	<u>NOTIFIER</u> NFW-50X	SELF-CONTAINED SURFACE MOUNT 19"H X 18.65"W X 5.25"D	72" TO TOP AFF
1		CLSS PATHWAY DUAL-PATH LTE COMMUNICATOR WITH COMMUNICATOR ENCLOSRE	<u>HONEYWELL</u> HW-AV-LTE-M-2 HW-AV-ENG	SELF-CONTAINED SURFACE MOUNT 12"H X 9"W X 6"D	ALIGN WITH OTHER EQUIPMENT
1		WATER FLOW SWITCH	BY OTHERS	MONITORED BY MONITOR MODULE	
2		TAMPER SWITCH	BY OTHERS	MONITORED BY MONITOR MODULE	
1		ADDRESSABLE INPUT MODULE	<u>NOTIFIER</u> NMM-100	4" SQUARE X 2.125" DEEP BACK BOX	ALIGN WITH OTHER EQUIPMENT
1		ADDRESSABLE DUAL INPUT MODULE	<u>NOTIFIER</u> NDM-100	4" SQUARE X 2.125" DEEP BACK BOX	ALIGN WITH OTHER EQUIPMENT
1		ADDRESSABLE MANUAL PULL STATION	<u>NOTIFIER</u> NOT-BG12LX	4" SQUARE, SINGLE GANG, OR DOUBLE GANG BACK BOX	46" TO CENTER AFF
1		PHOTOELECTRIC SMOKE DETECTOR	<u>NOTIFIER</u> NP-200	4" OCT OR SINGLE GANG	CEILING MOUNT
1		24 VOLT WATER FLOW BELL	<u>GENTEX</u> GBB-24 GBBB	GENTEX GBBB WEATHER PROOF BACK BOX	96" AFF
1		DOCUMENT ENCLOSURE WITH INTERNAL FLASH STORAGE	<u>SPACE AGE</u> SSU00690	12"W X 13"H X 2-1/4"D	ALIGN WITH OTHER EQUIPMENT

CKT #	DEVICE	LOCATION / AREA	CIRCUIT ORIGIN	TOTAL AMPS	WIRE DIST	WIRE SIZE	VOLT DROP	VOLT AT EOL	ACCEPTED DROP	VOLT DROP %
N0-1	SPARE	SPARE	FACU	0.000	0	14	0.00	20.40	YES	0.00%
N0-2	SPARE	SPARE	FACU	0.000	0	14	0.00	20.40	YES	0.00%
AUX	FLOW BELL	EXTERIOR	FACU	0.100	30	14	0.02	20.38	YES	0.09%

[illegible]

						SYSTEM OUTPUTS									
						ALARM AT FACU	ALARM REPORTED TO CENTRAL STATION	TROUBLE AT FACU	TROUBLE REPORTED TO CENTRAL STATION	SUPERVISORY AT FACU	SUPERVISORY REPORTED TO CENTRAL STATION	ACTIVATE AUDIBLES	ACTIVATE VISIBLE STROBES	RTU SHUTDOWN	SILENCE AUDIBLES
PULL STATION	•	•					•	•	•					NOTES:	
SMOKE DETECTOR	•	•					•	•	•						
SPRINKLER FLOW	•	•					•	•	•						
SPRINKLER TAMPER					•	•									
LOSS OF AC POWER AT FACU			•	•											
OPEN CIRCUIT			•	•											
DISCONNECTION OF BATTERIES			•	•											
GROUND FAULT			•	•											
PRESS SIGNAL SILENCE KEY										•	•				
PRESS RESET KEY											•				

The logo for POINTMONITOR, featuring a stylized eye icon to the left of the text. The text "POINTMONITOR" is in a bold, sans-serif font, with "POINT" in red and "MONITOR" in grey.

5863 LAKEVIEW BLVD. #100
LAKE OSWEGO, OR 97035
(503) 627-0100

Wm. L. Chy

MICHAEL CALLAWAY - 3800LEA

THE 1888 BUILDING

THE 1888 BUILDING
1819 E FIRST STREET
NEWBERG, OREGON 97132

FIRE ALARM SYSTEM

DWG REV. / DATE
0 03/27/26

DRAWN BY

MMW

CHECKED BY:

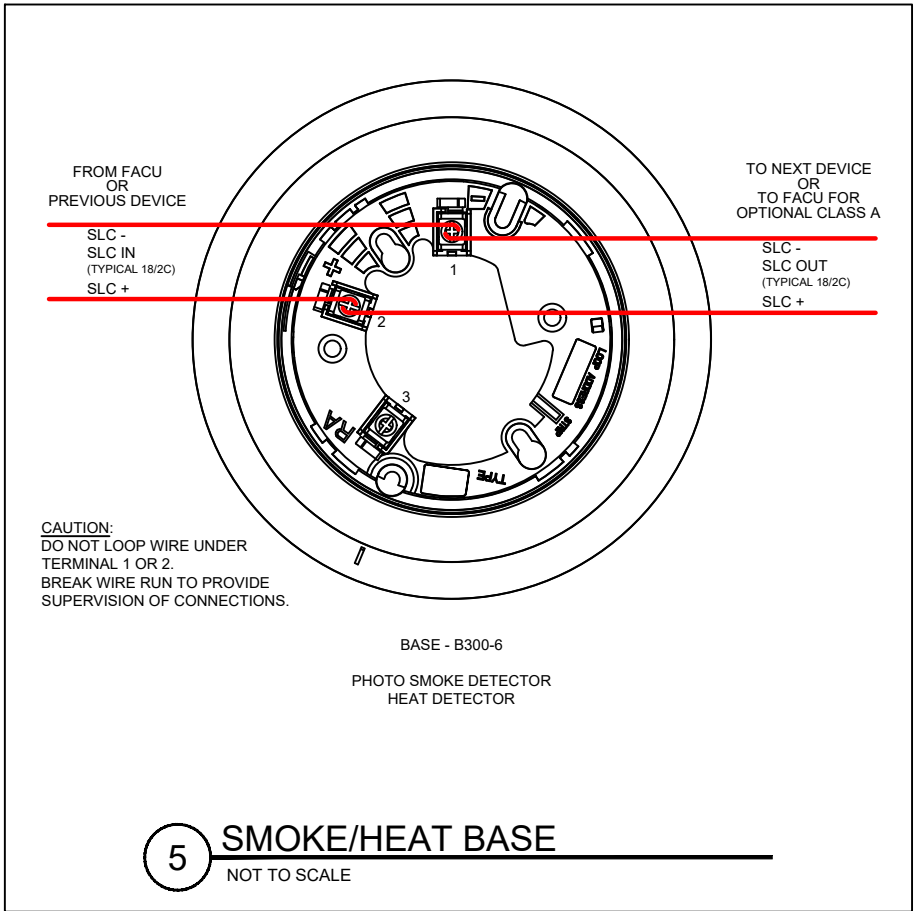
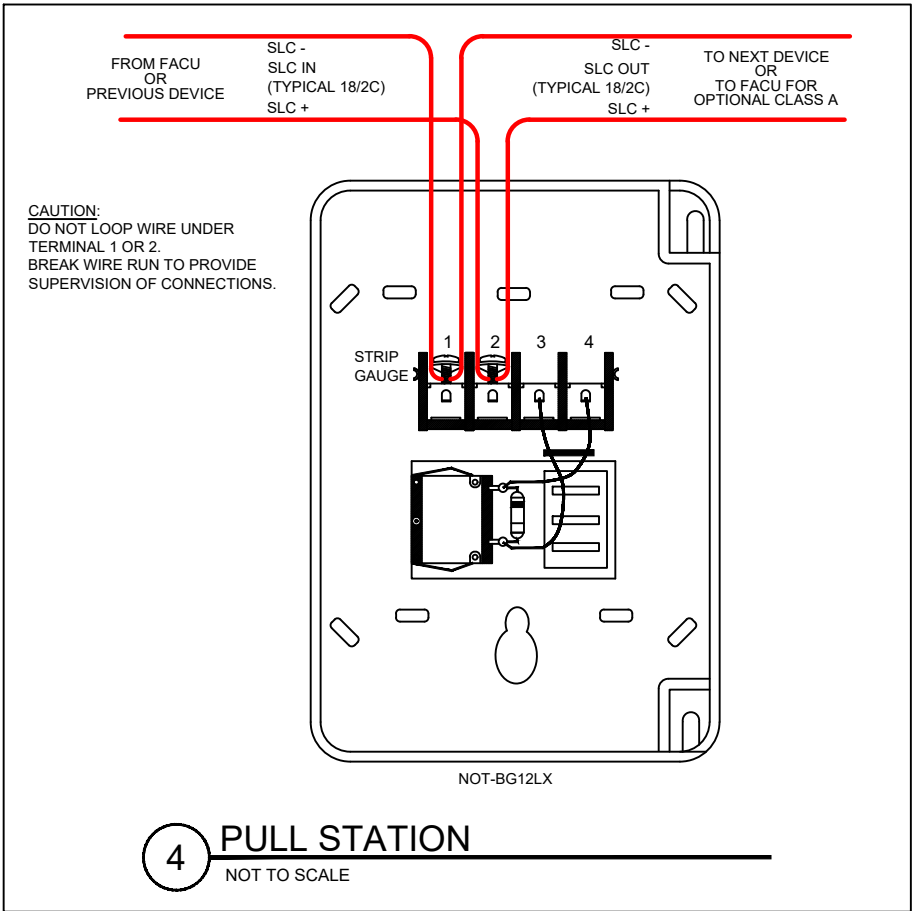
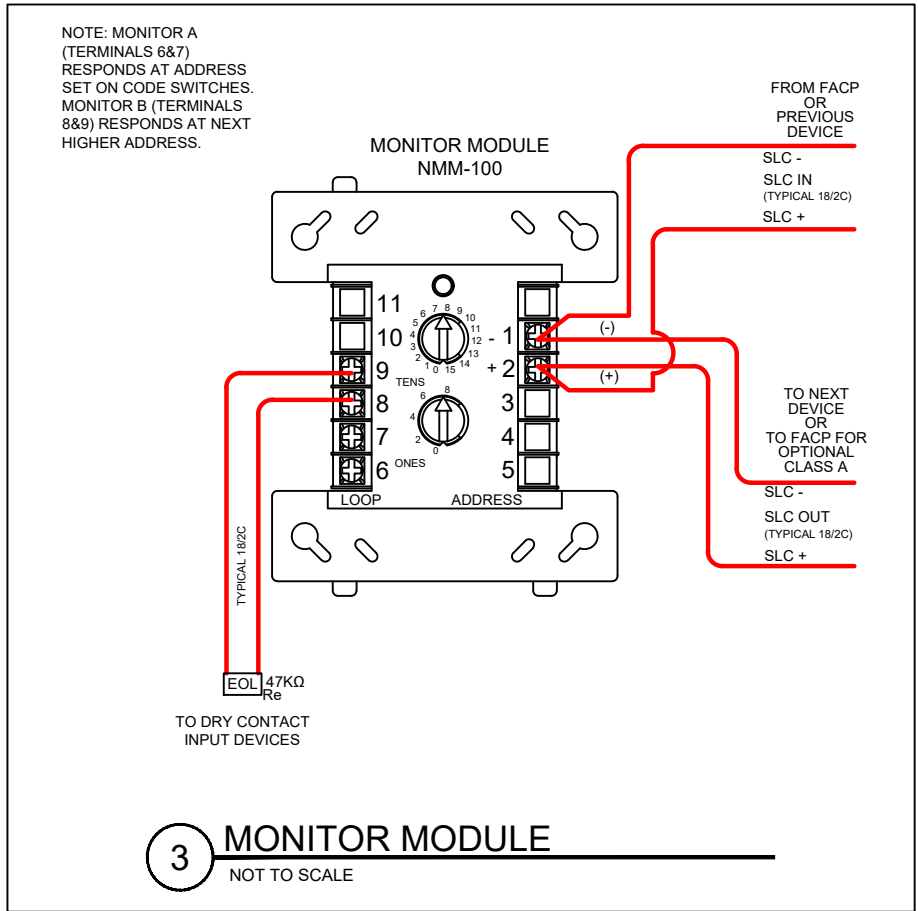
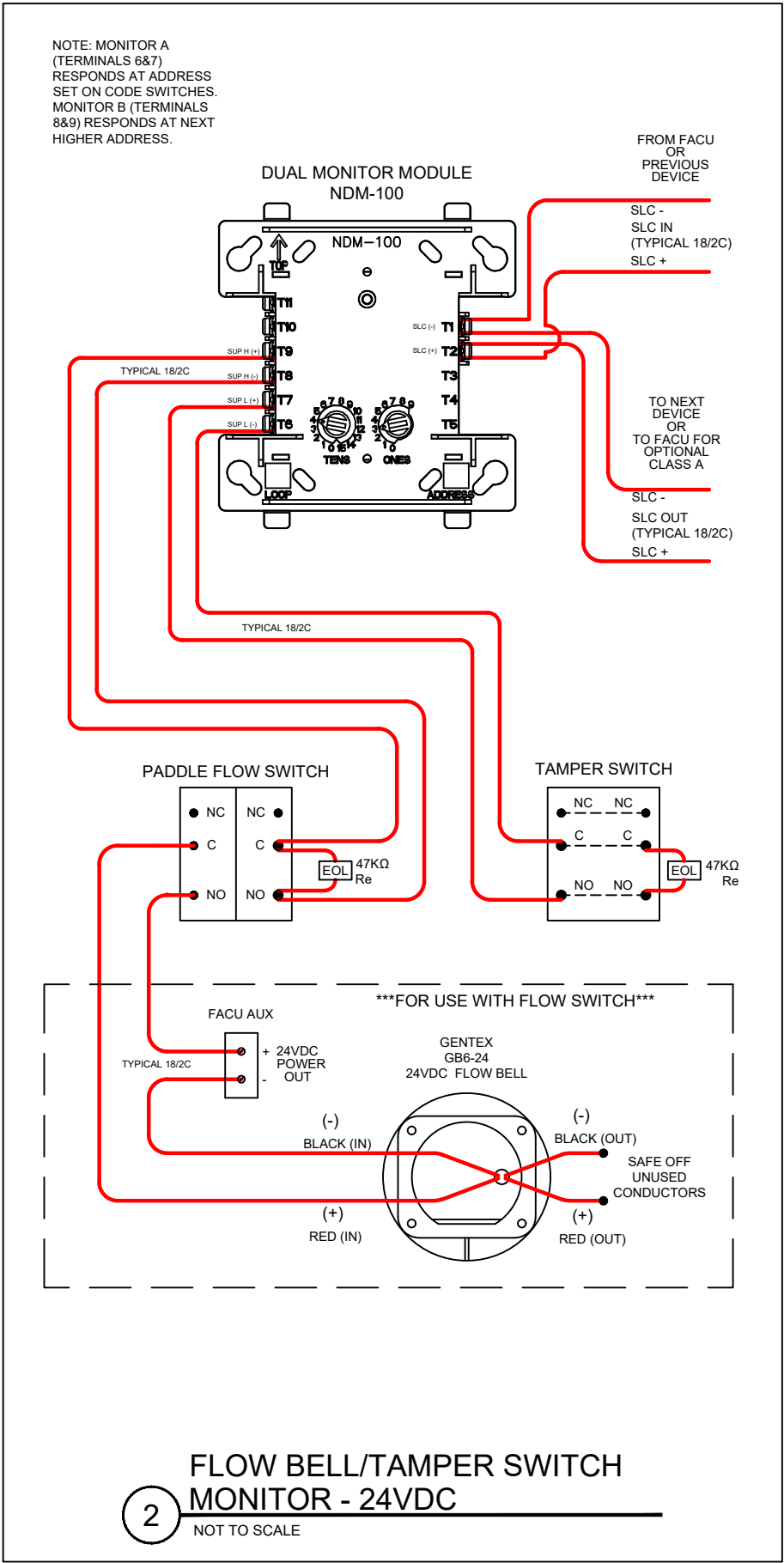
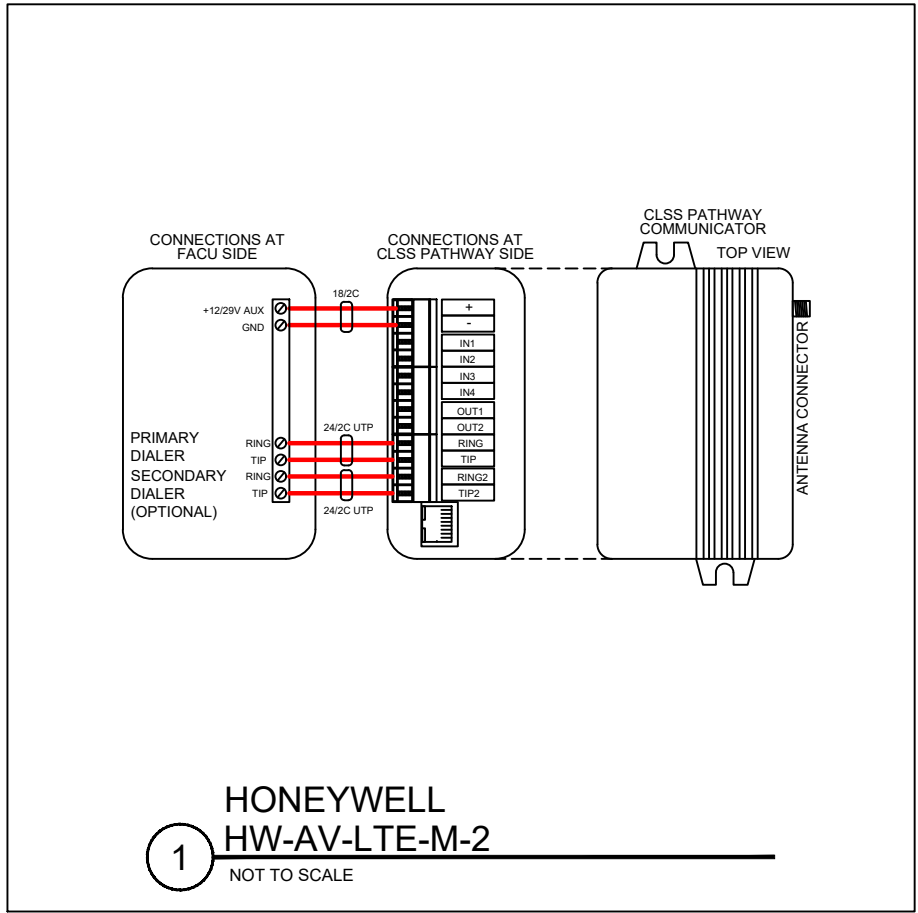
JDT

DESCRIPTION:
COVER

DRAWING #:

FA-1

ORIGINAL SHEET SIZE: 17"x 22"



ADDRESS SCHEDULE		
ADDRESS	DEVICE	LOCATION/AREA
D-01	PHOTO	HALL, AT FACP
M-02	PULL	DINING
A-03	SPARE	SPARE
M-04	DUAL	DINING, FLOW SWITCH
M-05	DUAL	DINING, TAMPER SWITCH
M-06	MONITOR	VAULT TAMPER SWITCH
A-07	SPARE	SPARE
A-08	SPARE	SPARE
A-09	SPARE	SPARE
A-10	SPARE	SPARE
A-11	SPARE	SPARE
A-12	SPARE	SPARE
A-13	SPARE	SPARE
A-14	SPARE	SPARE
A-15	SPARE	SPARE
A-16	SPARE	SPARE
A-17	SPARE	SPARE
A-18	SPARE	SPARE
A-19	SPARE	SPARE
A-20	SPARE	SPARE
A-21	SPARE	SPARE
A-22	SPARE	SPARE
A-23	SPARE	SPARE
A-24	SPARE	SPARE
A-25	SPARE	SPARE
A-26	SPARE	SPARE
A-27	SPARE	SPARE
A-28	SPARE	SPARE
A-29	SPARE	SPARE
A-30	SPARE	SPARE
A-31	SPARE	SPARE
A-32	SPARE	SPARE
A-33	SPARE	SPARE
A-34	SPARE	SPARE
A-35	SPARE	SPARE
A-36	SPARE	SPARE
A-37	SPARE	SPARE
A-38	SPARE	SPARE
A-39	SPARE	SPARE
A-40	SPARE	SPARE
A-41	SPARE	SPARE
A-42	SPARE	SPARE
A-43	SPARE	SPARE
A-44	SPARE	SPARE
A-45	SPARE	SPARE
A-46	SPARE	SPARE
A-47	SPARE	SPARE
A-48	SPARE	SPARE
A-49	SPARE	SPARE
A-50	SPARE	SPARE

DRAWINGS PREPARED BY:



5863 LAKEVIEW BLVD. #100
LAKE OSWEGO, OR 97035
(503) 627-0100

THE 1888 BUILDING

THE 1888 BUILDING
819 E FIRST STREET
NEWBERG, OREGON 97132

FIRE ALARM SYSTEM

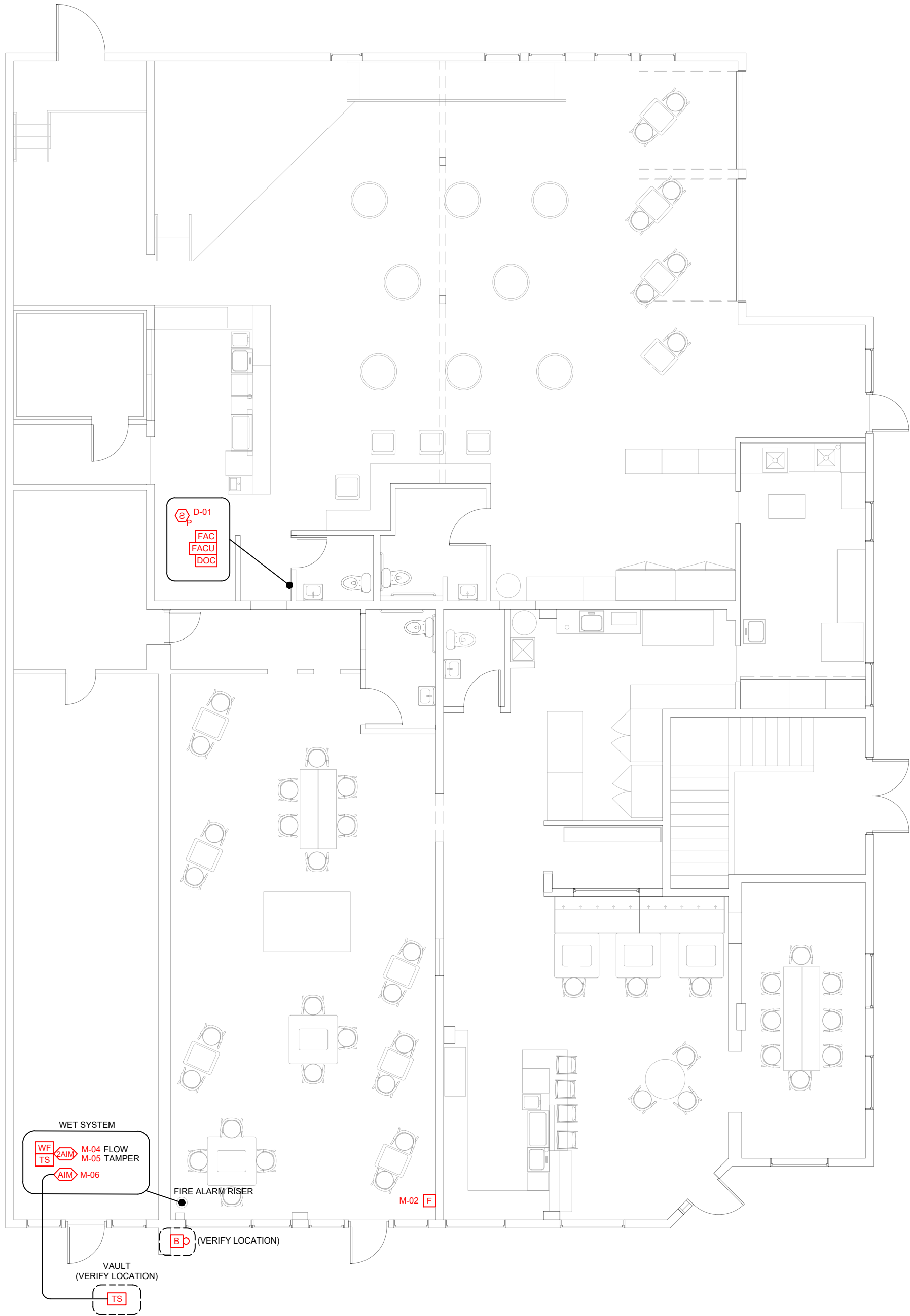
DWG REV. / DATE
0 03/27/26

DRAWN BY:
MMW

CHECKED BY:
JDT

DESCRIPTION:
COVER

DRAWING #:
FA-2
ORIGINAL SHEET SIZE: 17"x 22"



1 FLOOR PLAN
SCALE: 1/8"=1'-0"



DRAWINGS PREPARED BY:



5863 LAKEVIEW BLVD. #100
LAKE OSWEGO, OR 97035
(503) 627-0100

THE 1888 BUILDING

THE 1888 BUILDING
819 E FIRST STREET
NEWBERG, OREGON 97132

FIRE ALARM SYSTEM

DWG REV. / DATE
0 03/27/26

DRAWN BY:
MMW

CHECKED BY:
JDT

DESCRIPTION:
FLOOR PLAN

DRAWING #:
FA-3
ORIGINAL SHEET SIZE: 17"x 22"

**PERMIT #:** FIRE-26-3**ISSUED DATE:** June 1, 2026

CERTIFICATE OF COMPLETION

All inspections have been conducted and, as of the issuance of this certificate, the permitted work is in full compliance with all applicable codes and regulations.

THE PERMITTED WORK IS DEEMED SATISFACTORY AND COMPLETE

Site Address: 817 E FIRST ST, Newberg, OR, 97132

Parcel #: R3219AA 06400

Construction Types: New - Fire Alarm

Permit Type: Commercial

Type of Sprinkler System:

DETAILED DESCRIPTION OF WORK: Modify an existing Fire Alarm System

AUTHORIZED PERMIT HOLDERS

Owner: EVERLEY STEVE KOCH KELLY , NEWBERG, OR. 97132

Contractor: MARK GERALD HIGGINS **CCB License #:** 135901

COMMENTS

ALL FINAL INSPECTIONS HAVE BEEN COMPLETED, AND THE PERMITTED WORK HAS BEEN FOUND TO MEET ALL REQUIRED STANDARDS AND IS HEREBY DEEMED COMPLETE.

THIS CERTIFICATE MAY BE REVOKED BY THE City of Newberg, OR UPON VIOLATION OF ANY OF ITS RULES AND REGULATIONS.

To view permit details, scan this barcode or visit newbergor.viewpointcloud.com/#/records/5275



City of Newberg, OR

Inspection Report

Inspection: FINAL INSPECTION

Inspector: BLD- Brooks Bateman

Inspection Date: Jun 1, 2026

Record: *Fire Sprinkler/Suppression/Alarm Installation Permit
#FIRE-26-3

Location: 817 E FIRST ST, Newberg, OR 97132

Applicant: Jamie Doyle

FIRE ALARM FINAL

Overall Result: Pass

INSTALL A NEW ADDRESSABLE FIRE ALARM SYSTEM WHICH INCLUDES CENTRAL STATION OFF-SITE REPORTING, SPRINKLER FLOW AND TAMPER VALVE MONITORING, MANUAL PULL STATION, AND SMOKE DETECTOR.

1. THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH 2022 NFPA 72 AND NFPA 70, ARTICLE 760, POWER LIMITED SYSTEMS.
2. FIRE ALARM WIRE INSTALLED IN VERTICAL RUNS AND PENETRATING MORE THAN ONE FLOOR SHALL BE RISER RATED.
3. FIRE ALARM WIRE RUN IN DUCTS OR PLENUMS SHALL BE PLENUM RATED.
4. ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.
5. A SYSTEM GROUND MUST BE PROVIDED FOR EARTH DETECTION AND LIGHTNING PROTECTION DEVICES.
6. DEDICATED BRANCH CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED.
7. CIRCUIT DISCONNECT MEANS SHALL HAVE A RED MARKING, IDENTIFIED AS "FIRE ALARM CIRCUIT".
8. AUDIBLE ALARMS SHALL CONFORM TO SECTION 18.4.4 PUBLIC MODE (2022 NFPA 72).
9. CENTRAL STATION MONITORING SHALL BE DOCUMENTED UPON COMPLETION OF THE PROJECT IN ACCORDANCE WITH SECTION 26.3.4 (2022 NFPA 72).
10. A RECORD OF COMPLETION SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE ACCEPTANCE TEST INSPECTION IN ACCORDANCE WITH SECTION 7.5.6.2 (2022 NFPA 72).
11. A LOCKABLE DOCUMENT STORAGE CAN SHALL BE PROVIDED.

 SLC - 18/2
 NAC - 14/2
 24V - 18/2

Wiring diagram for a fire alarm control panel (FACP) showing connections to a NOTIFIER NFW-50X FACP W/INTEGRAL DACT.

The diagram includes a power supply section with a 24VDC source, a 18/2C cable, and a 120 VAC DEDICATED (BY OTHERS) source. It also shows a FA RISER and VAULT section with connections to a 2AIM and 1AIM terminal block, and a BY OTHERS section with connections to a 1WF, 1TS, and 1EOL terminal block.

The FACP is connected to the NOTIFIER FACP W/INTEGRAL DACT via a 120 VAC DEDICATED (BY OTHERS) source.

NOTE: WIRE TO BE FPL, FPLR OR FPLP PER NEC

QTY	SYMBOL	DESCRIPTION	PART #	ROUGH-IN / NOTE	MOUNTING HEIGHT
1		FIRE ALARM CONTROL PANEL	<u>NOTIFIER</u> NFW-50X	SELF-CONTAINED SURFACE MOUNT 19"H X 18.65"W X 5.25"D	72" TO TOP AFF
1		CLSS PATHWAY DUAL-PATH LTE COMMUNICATOR WITH COMMUNICATOR ENCLOSRE	<u>HONEYWELL</u> HW-AV-LTE-M-2 HW-AV-ENG	SELF-CONTAINED SURFACE MOUNT 12"H X 9"W X 6"D	ALIGN WITH OTHER EQUIPMENT
1		WATER FLOW SWITCH	BY OTHERS	MONITORED BY MONITOR MODULE	
2		TAMPER SWITCH	BY OTHERS	MONITORED BY MONITOR MODULE	
1		ADDRESSABLE INPUT MODULE	<u>NOTIFIER</u> NMM-100	4" SQUARE X 2.125" DEEP BACK BOX	ALIGN WITH OTHER EQUIPMENT
1		ADDRESSABLE DUAL INPUT MODULE	<u>NOTIFIER</u> NDM-100	4" SQUARE X 2.125" DEEP BACK BOX	ALIGN WITH OTHER EQUIPMENT
1		ADDRESSABLE MANUAL PULL STATION	<u>NOTIFIER</u> NOT-BG12LX	4" SQUARE, SINGLE GANG, OR DOUBLE GANG BACK BOX	46" TO CENTER AFF
1		PHOTOELECTRIC SMOKE DETECTOR	<u>NOTIFIER</u> NP-200	4" OCT OR SINGLE GANG	CEILING MOUNT
1		24 VOLT WATER FLOW BELL	<u>GENTEX</u> GBB-24 GBBB	GENTEX GBBB WEATHER PROOF BACK BOX	96" AFF
1		DOCUMENT ENCLOSURE WITH INTERNAL FLASH STORAGE	<u>SPACE AGE</u> SSU00690	12"W X 13"H X 2-1/4"D	ALIGN WITH OTHER EQUIPMENT

CKT #	DEVICE	LOCATION / AREA	CIRCUIT ORIGIN	TOTAL AMPS	WIRE DIST	WIRE SIZE	VOLT DROP	VOLT AT EOL	ACCEPTED DROP	VOLT DROP %
N0-1	SPARE	SPARE	FACU	0.000	0	14	0.00	20.40	YES	0.00%
N0-2	SPARE	SPARE	FACU	0.000	0	14	0.00	20.40	YES	0.00%
AUX	FLOW BELL	EXTERIOR	FACU	0.100	30	14	0.02	20.38	YES	0.09%

[illegible][illegible]

DRAWINGS PREPARED BY:



5863 LAKEVIEW BLVD. #100
LAKE OSWEGO, OR 97035
(503) 627-0100

REVIEWED/APPROVED:

Wm L. Chy

MICHAEL CALLAWAY - 3800LEA

THE 1888 BUILDING

THE 1888 BUILDING
1819 E FIRST STREET
NEWBERG, OREGON 97132

FIRE ALARM SYSTEM

DWG REV. / DATE
0 03/27/26

DRAWN BY

MMW

CHECKED BY:

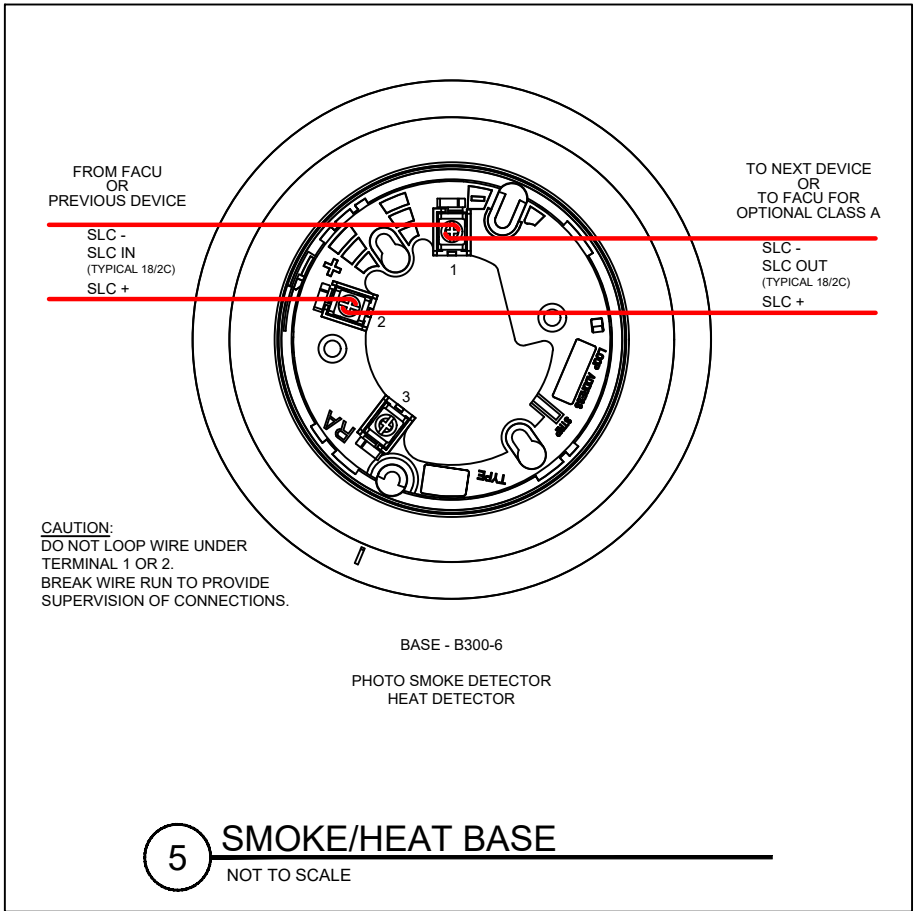
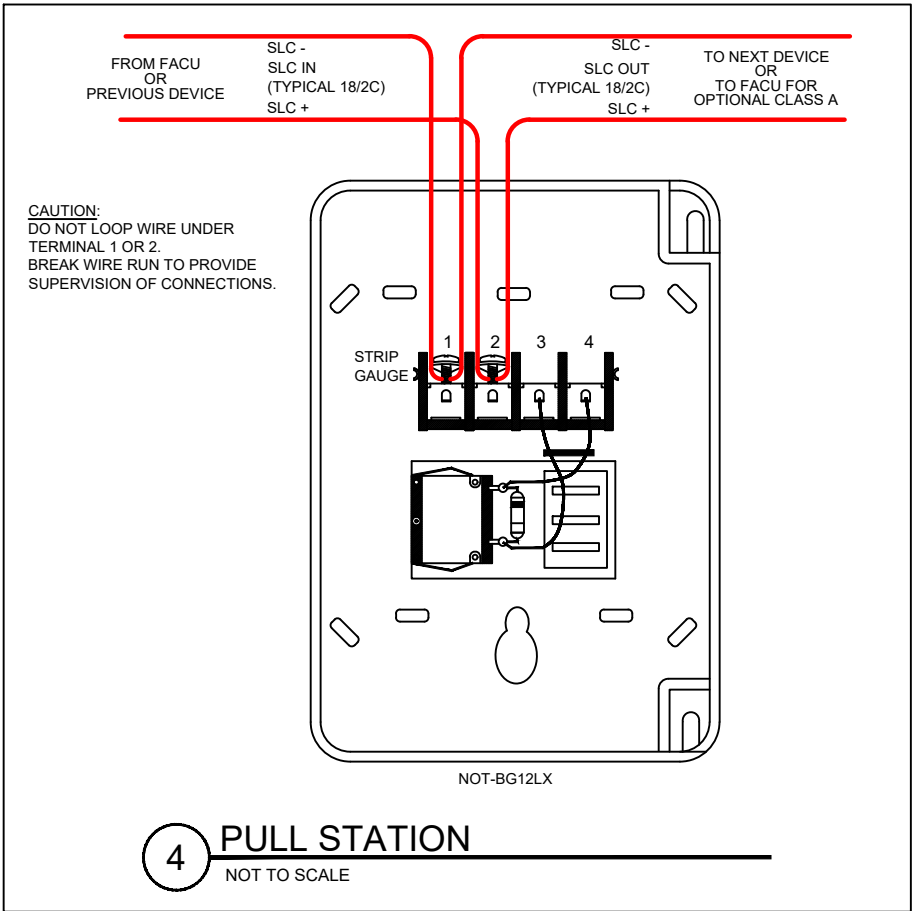
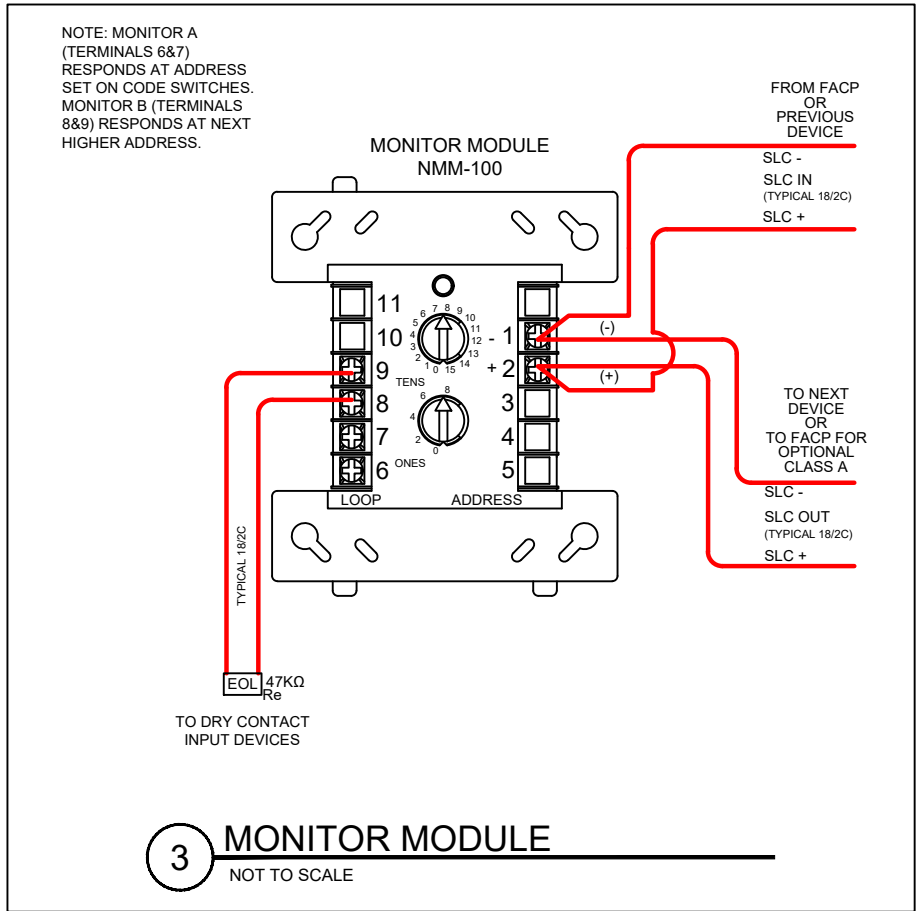
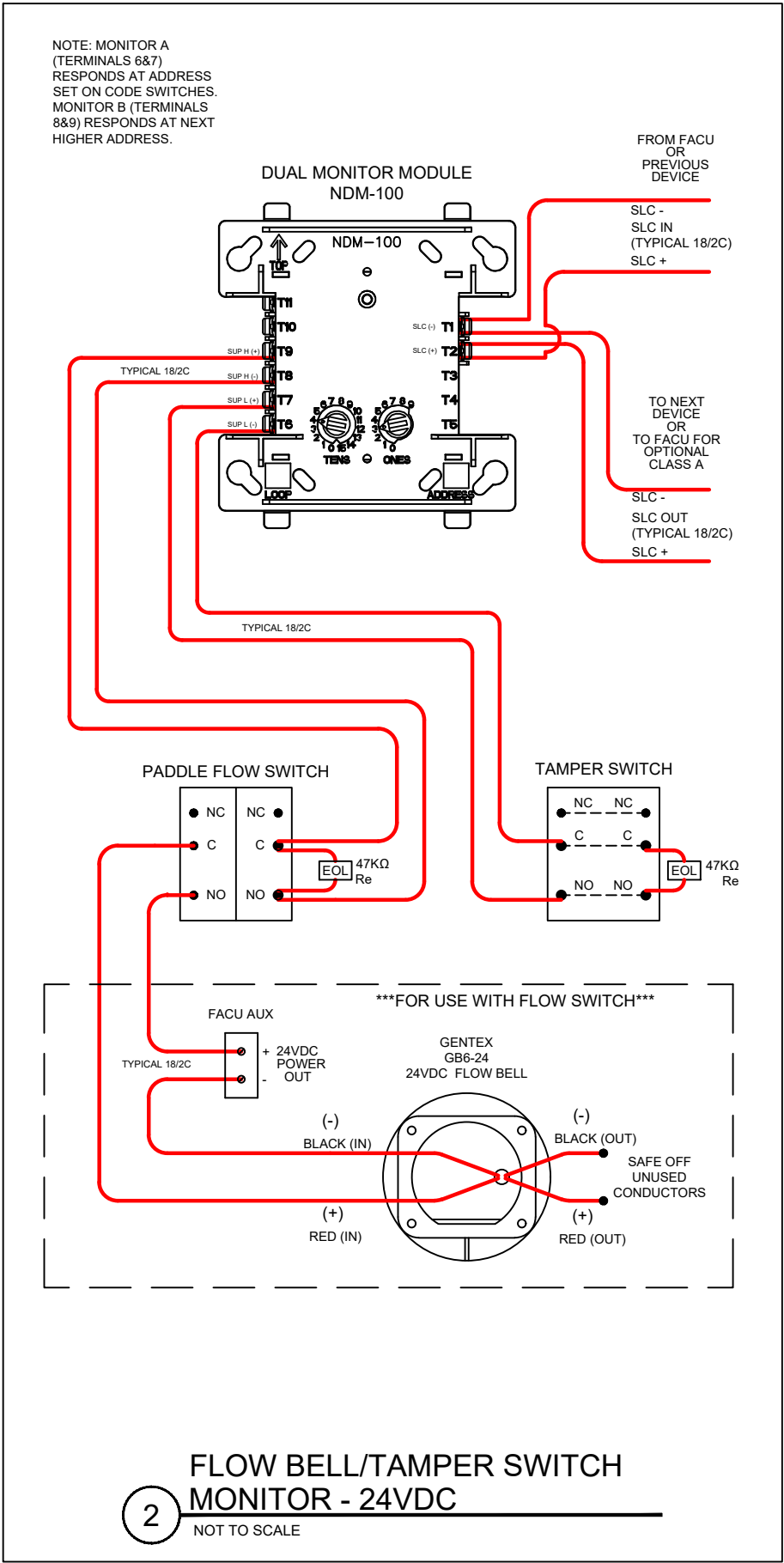
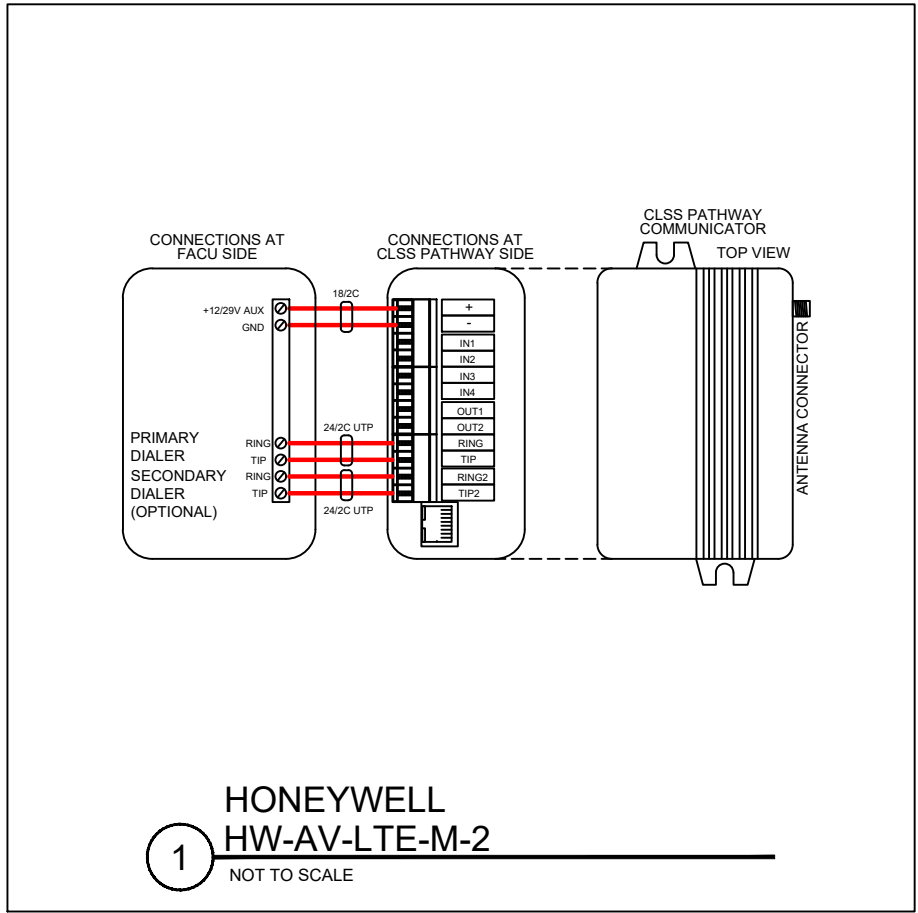
JDT

DESCRIPTION:
COVER

DRAWING #:

FA-1

ORIGINAL SHEET SIZE: 17"x 22"



ADDRESS SCHEDULE		
ADDRESS	DEVICE	LOCATION/AREA
D-01	PHOTO	HALL, AT FACP
M-02	PULL	DINING
A-03	SPARE	SPARE
M-04	DUAL	DINING, FLOW SWITCH
M-05	DUAL	DINING, TAMPER SWITCH
M-06	MONITOR	VAULT TAMPER SWITCH
A-07	SPARE	SPARE
A-08	SPARE	SPARE
A-09	SPARE	SPARE
A-10	SPARE	SPARE
A-11	SPARE	SPARE
A-12	SPARE	SPARE
A-13	SPARE	SPARE
A-14	SPARE	SPARE
A-15	SPARE	SPARE
A-16	SPARE	SPARE
A-17	SPARE	SPARE
A-18	SPARE	SPARE
A-19	SPARE	SPARE
A-20	SPARE	SPARE
A-21	SPARE	SPARE
A-22	SPARE	SPARE
A-23	SPARE	SPARE
A-24	SPARE	SPARE
A-25	SPARE	SPARE
A-26	SPARE	SPARE
A-27	SPARE	SPARE
A-28	SPARE	SPARE
A-29	SPARE	SPARE
A-30	SPARE	SPARE
A-31	SPARE	SPARE
A-32	SPARE	SPARE
A-33	SPARE	SPARE
A-34	SPARE	SPARE
A-35	SPARE	SPARE
A-36	SPARE	SPARE
A-37	SPARE	SPARE
A-38	SPARE	SPARE
A-39	SPARE	SPARE
A-40	SPARE	SPARE
A-41	SPARE	SPARE
A-42	SPARE	SPARE
A-43	SPARE	SPARE
A-44	SPARE	SPARE
A-45	SPARE	SPARE
A-46	SPARE	SPARE
A-47	SPARE	SPARE
A-48	SPARE	SPARE
A-49	SPARE	SPARE
A-50	SPARE	SPARE

DRAWINGS PREPARED BY:



5863 LAKEVIEW BLVD. #100
LAKE OSWEGO, OR 97035
(503) 627-0100

THE 1888 BUILDING

THE 1888 BUILDING

819 E FIRST STREET
NEWBERG, OREGON 97132

FIRE ALARM SYSTEM

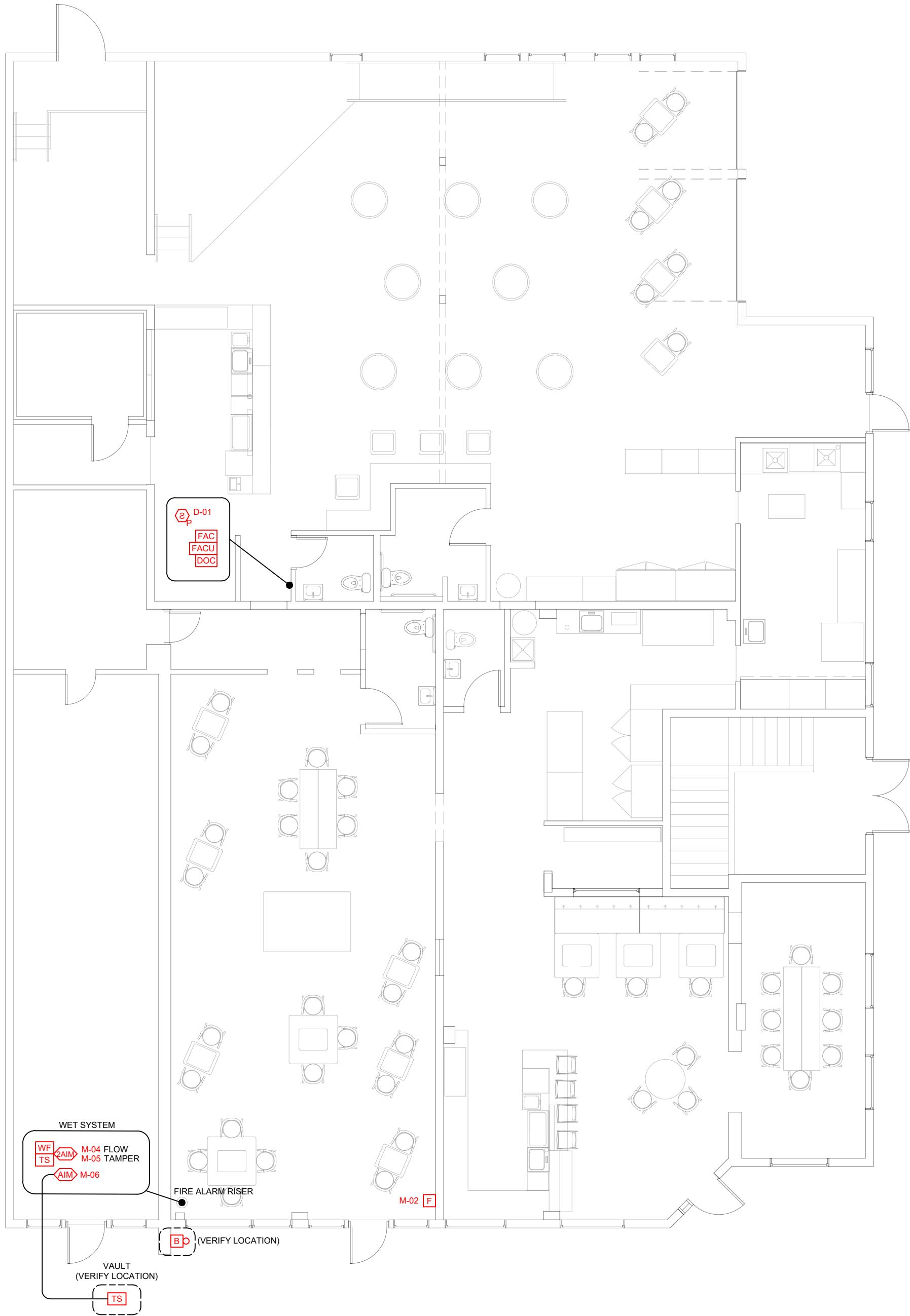
DWG REV. / DATE
0 03/27/26

DRAWN BY:
MMW

CHECKED BY:
JDT

DESCRIPTION:
COVER

DRAWING #:
FA-2
ORIGINAL SHEET SIZE: 17"x 22"



1 FLOOR PLAN
SCALE: 1/8"=1'-0"



DRAWINGS PREPARED BY:



5863 LAKEVIEW BLVD. #100
LAKE OSWEGO, OR 97035
(503) 627-0100

THE 1888 BUILDING

THE 1888 BUILDING
819 E FIRST STREET
NEWBERG, OREGON 97132

FIRE ALARM SYSTEM

DWG REV. / DATE
0 03/27/26

DRAWN BY:
MMW

CHECKED BY:
JDT

DESCRIPTION:
FLOOR PLAN

DRAWING #:
FA-3
ORIGINAL SHEET SIZE: 17"x 22"

NFW-50X Intelligent Addressable FACP with Communicator

General

The **FireWarden-50X (NFW-50X)** is the latest intelligent addressable fire alarm control panel (FACP) within the FireWarden Series and is a direct replacement for the FireWarden-50 (NFW-50). The NFW-50X comes with a pre-installed communicator and supports up to 50 addressable devices in any combination of detectors or modules. With an extensive list of powerful features, the NFW-50X programs just like FireWarden-100 products, yet fits into applications previously served only by conventional panels.

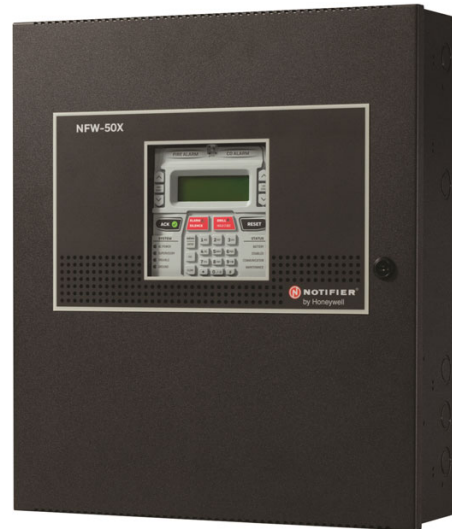
The pre-installed IPOTS-COM is a dual technology (POTS and IP) communicator. The POTS transmits system status (alarms, troubles, AC loss, etc.) to a Central Station via the public switched telephone network. The IP communicator's internet monitoring capability sends alarm signals over the Internet saving the monthly cost of two dedicated business telephone lines. Although not required, the secondary telephone line may be retained providing backup communication over the public switched telephone line. Optional cellular reporting is available using the CELL-MOD or CELL-CAB-N.

Remote and local programming of the control panel is possible using the FS-Tools Upload/Download utility. Programming databases can be uploaded/downloaded via the panel's USB port (and USB cable) or via an ethernet connection using the IPOTS-COM communicator. The USB port also allows for the download or upload of the entire program, history file, walk-test data, current status and system voltages by means of a USB flash drive.

The power supply and all electronics are contained on a circuit board supported on a new quick install chassis and housed in a metal cabinet. Available accessories include local and remote upload/download software, remote annunciators, and reverse polarity/city box transmitter (4XTM).

Features

- Listed to UL Standard 864, 10th edition
- Pre-installed IPOTS-COM Ethernet IP and POTS (Plain Old Telephone Service) Central Station Communicator
- Optional CELL-MOD or CELL-CAB-N GSM Central Station Communicator over AlarmNet®
- Compatible with SWIFT® wireless devices
- Auto-programming (learn mode) reduces installation time. Reports two devices set to the same address
- Two independently programmable, built-in Style Z (Class A) or Style Y (Class B) NAC circuits
- Selectable strobe synchronization for System Sensor, Wheelock, and Gentex devices
- Notification Appliance Circuit End of Line resistor matching
- Four programmable function keys for ease of maintenance
- Two programmable relays and one fixed trouble relay
- Built-in Programmer
- Integral 80-character LCD display with backlighting
- Real-time clock/calendar with automatic daylight savings control
- History file with 1,000 event capacity
- Addressable sounder base
- Control module delay timer
- Automatic detector sensitivity testing (NFPA 72 compliant)
- Automatic device type-code verification
- Point trouble identification
- Waterflow selection per module point
- Alarm verification selection per detector point
- Maintenance alert warns when smoke detector dust accumulation is excessive



- One-person audible or silent walktest with walktest log & printout
- System alarm verification selection per detector point
- PAS (Positive Alarm Sequence) and Pre-signal per point (NFPA 72 compliant)
- Up to 16 ANN-BUS annunciators- 8 per each ANN-Bus
- Remote Acknowledge, Alarm Silence, Reset and Drill via addressable modules or remote annunciator
- Upload/Download of program and data via USB with optional FS-Tools Programming Utility

SLC COMMUNICATION LOOP

- Supports FlashScan® and CLIP protocols
- SLC operates up to 10,000 ft. (3,000 m) in FlashScan mode with twisted, unshielded wire
- Single addressable SLC loop which meets NFPA Class B and Class A requirements
- 50 addressable device capacity (any combination of addressable detectors and modules)
- Compatible with NOTIFIER FireWarden & ONYX Series addressable devices (refer to the *FireWarden SLC Wiring Manual*)

NOTIFICATION APPLIANCE CIRCUITS (NACS)

- Two independently programmable output circuits. Circuits can be configured for the following outputs:
 - **Style Y** (Class B)
 - **Style Z** (Class A)
- Silence Inhibit and Autosilence timer options
- Continuous, March Time, Temporal, or California code for main circuit board NACs with two-stage capability
- Selectable strobe synchronization per NAC
- 2.5 A special application, 250mA regulated, total power for NACs

NOTE: Maximum or total 24VDC system power shared between all NAC circuits and the ANN-BUS is 2.7 A

PROGRAMMING AND SOFTWARE

- Autoprogramming (learn mode) reduces installation time
- Custom English labels (per point) may be manually entered or selected from an internal library file
- Two programmable Form-C relay outputs
- 50 software zones
- Continuous fire protection during online programming

- Program Check automatically catches common errors not linked to any zone or input point
- **OFFLINE PROGRAMMING:** Create the entire program in your office using FS-Tools, a Windows®-based software package, and upload/download system programming locally. Offline programming requires an ethernet connection. FS-Tools is available on www.notifier.com.

User interface

LED INDICATORS

- | | |
|---------------------------|---|
| • Fire Alarm (red) | • CO Alarm (red) |
| • AC Power (green) | • Supervisory (yellow) |
| • Trouble (yellow) | • Ground fault (yellow) |
| • Battery fault (yellow) | • Disabled (yellow) |
| • Maintenance (yellow) | • Communication (yellow) |
| • Alarm Silenced (yellow) | • F1-F4 Programmable Function Keys (yellow) |

KEYPAD

- | | |
|---------------------------------------|---------------------------|
| • 16 key alpha-numeric pad | • Acknowledge |
| • Alarm Silence | • Drill (Manual Evacuate) |
| • Four (4) programmable function keys | • Reset (lamp test) |

Product Line Information

NFW-50X: Addressable Fire Alarm Control Panel with one SLC loop. Includes main circuit board with display, pre-installed IPOTS-COM communicator, chassis with transformer, backbox with door, plastic bag containing screws, cables, key, etc.

FS-Tools: Programming software for Windows®-based PC computer. Available for download at www.notifier.com.

CELL-CAB-N/CELL-MOD: Optional GSM communicators.

IPOTS-COM: Dual technology (POTS and IP) communicator. (replacement board)

DP-ES-R: Optional dress panel for the NFW-50XR (red).

DP-ES-B: Optional dress panel for NFW-50X (black).

TR-CE-B: Optional trim ring for semi-flush mounting. (Black. For red, order **TR-CE**.)

BB-XP: Optional cabinet for one or two modules.

BB-25: Optional cabinet for up to six modules mounted on CHS-6 chassis.

BB-26: Battery backbox, holds up to two 25 AH batteries & CHG-75.

NFS-LBB: Battery box, houses two 55 AH batteries

CHS-6: Chassis, mounts up to six multi-modules in a BB-25 cabinet.

CHG-75: Battery charger for lead-acid batteries with a rating of 25 to 75 AH.

CHG-120: Remote battery charging system for lead-acid batteries with a rating of 55 to 120 AH. Requires additional NFS-LBB for mounting.

NOTE: CHG-120 or CHG-75 required for batteries larger than 18AH.

BAT Series: Batteries, see data sheet DN-6933.

PRN Series: UL listed compatible event printer. Uses tractor-fed paper.

OPTIONAL MODULES

4XTM Reverse Polarity Transmitter Module: Provides a supervised output for local energy municipal box transmitter, alarm and trouble. Includes a disable switch and disable trouble LED.

COMPATIBLE ANNUNCIATORS

N-ANN-80: Remote, black LCD annunciator mimics the information displayed on the FACP LCD display. Recommended wire type is unshielded.

N-ANN-100: Remote LCD annunciator mimics the information displayed on the FACP LCD display. Recommended wire type is unshielded. For use in FM applications only. (Basic model is black;

order R for red.)

N-ANN-IO: LED Driver Module provides connections to a user supplied graphic annunciator. (See DN-7105.)

N-ANN-LED: Annunciator Module provides three LEDs for each zone: Alarm, Trouble, and Supervisory. Ships with red enclosure. (See DN-60242.)

N-ANN-RLED: Provides alarm (red) indicators for up to 30 input zones or addressable points. (See DN-60242.)

N-ANN-RLY: Relay Module provides 10 programmable Form-C relays. Can be mounted inside the cabinet. (See DN-7107.)

N-ANN-S/PG: Serial/Parallel Printer Gateway module provides a connection for a serial or parallel printer. (See DN-7103.)

ADDRESSABLE DEVICES

FSP-951: Addressable low-profile photoelectric smoke detector. FlashScan only.

FSP-951-IV: Addressable low-profile photoelectric smoke detector. Ivory. FlashScan and CLIP mode.

NP-200: Addressable low-profile photoelectric smoke detector. B300-6 base included, FlashScan only.

NP-200-IV: Addressable low-profile photoelectric smoke detector. Ivory, B300-6-IV base included. FlashScan and CLIP mode.

FSP-951T: Addressable low-profile photoelectric smoke detector with thermal sensor. FlashScan only.

FSP-951T-IV: Addressable low-profile photoelectric smoke detector with thermal sensor. Ivory. FlashScan and CLIP mode.

NP-200T: Addressable low-profile photoelectric smoke detector with thermal sensor. B300-6 base included. FlashScan only.

NP-200T-IV: Addressable low-profile photoelectric smoke detector with thermal sensor. Ivory, B300-6-IV base included. FlashScan and CLIP mode.

FSP-951R: Remote test capable addressable photoelectric smoke detector for use with DNR(W) duct detector housing. FlashScan only.

FSP-951R-IV: Remote test capable addressable photoelectric smoke detector for use with DNR(W) duct detector housing. Ivory. FlashScan and CLIP mode.

NP-200R: Remote test capable addressable photoelectric smoke detector for use with DNR(W) duct detector housing. FlashScan only.

NP-200R-IV: Remote test capable addressable photoelectric smoke detector for use with DNR(W) duct detector housing. Ivory, FlashScan and CLIP mode.

FST-951: Low-profile 135°F fixed thermal sensor. FlashScan only.

FST-951-IV: Low-profile 135°F fixed thermal sensor. Ivory. FlashScan and CLIP mode.

NH-200: Low-profile 135°F fixed thermal sensor. B300-6 base included, FlashScan only.

NH-200-IV: Low-profile 135°F fixed thermal sensor. Ivory. B300-6-IV base included, FlashScan and CLIP mode.

FST-951R: Low-profile, intelligent, rate-of-rise thermal sensor. FlashScan only.

FST-951R-IV: Low-profile, intelligent, rate-of-rise thermal sensor. Ivory. FlashScan and CLIP mode.

NH-200R: Low-profile 135°F fixed thermal sensor. B300-6 base included, FlashScan only.

NH-200R-IV: Low-profile 135°F fixed thermal sensor. Ivory. B300-6-IV base included, FlashScan and CLIP mode.

FST-951H: Low-profile intelligent 190°F/88°C fixed thermal sensor. FlashScan only.

FST-951H-IV: Low-profile intelligent 190°F/88°C fixed thermal sensor. Ivory. FlashScan and CLIP mode.

NH-200H: Low-profile intelligent 190°F/88°C fixed thermal sensor. B300-6 base included, FlashScan only.

NH-200H-IV: Low-profile intelligent 190°F/88°C fixed thermal sensor. Ivory. B300-6-IV base included, FlashScan and CLIP mode.

Legacy Devices

FSP-851: Addressable low-profile photoelectric smoke detector.

NP-100: Addressable low-profile photoelectric smoke detector.

FSP-851T: Addressable low-profile photoelectric smoke detector with thermal sensor.

NP-100T: Addressable low-profile photoelectric smoke detector with thermal sensor.

FSP-851R: Remote test capable addressable photoelectric smoke detector for use with DNR(W) duct detector housing.

NP-100R: Remote test capable addressable photoelectric smoke detector for use with DNR(W) duct detector housing.

FST-851: Fast-response, low-profile heat detector.

NH-100: Fast-response, low-profile heat detector.

FST-851R: Fast-response, low-profile heat detector with rate-of-rise option.

NH-100R: Fast-response, low-profile heat detector with rate-of-rise option.

FST-851H: Fast-response, low-profile heat detector that activates at 190°F/88°C.

NH-100H: Fast-response, low-profile heat detector that activates at 190°F/88°C.

FAPT-851: Addressable low-profile multi-sensor detector.

NP-A100: Addressable low-profile multi-sensor detector.

B200S: Programmable, addressable sounder base.

B200SR: Addressable sounder base.

DNR: InnovairFlex low-flow non-relay duct-detector housing. (Order FSP-851R, FSP-951R, or NP-100R separately.)

DNRW: InnovairFlex low-flow non-relay duct-detector housing, with NEMA-4 rating. Watertight. (Order FSP-851R, FSP-951R, or NP-100R separately.)

Addressable Modules

FMM-1: Addressable Monitor Module for one zone of normally-open dry-contact initiating devices. Mounts in standard 4.0" (10.16 cm.) box. Includes plastic cover plate and end-of-line resistor. Module may be configured for either a Style B (Class B) or Style D (Class A) IDC.

NMM-100: Addressable Monitor Module for one zone of normally-open dry-contact initiating devices. Mounts in standard 4.0" (10.16 cm.) box. Includes plastic cover plate and end-of-line resistor. Module may be configured for either a Style B (Class B) or Style D (Class A) IDC.

FDM-1: Dual Monitor Module. Same as NMM-100 except it provides two Style B (Class B) only IDCs.

NDM-100: Dual Monitor Module. Same as NMM-100 except it provides two Style B (Class B) only IDCs.

FMM-101: Miniature version of NMM-100. Excludes LED and Style D option. Connects with wire pigtails. May mount in device backbox.

NMM-100P: Miniature version of NMM-100. Excludes LED and Style D option. Connects with wire pigtails. May mount in device backbox.

FZM-1: Similar to NMM-100. Addressable Monitor Module for one zone of conventional two-wire detectors. Requires resettable 24 VDC power. Refer to the *Device Compatibility Document* for listed compatible devices and quantity limitation.

NZM-100: Similar to NMM-100. Addressable Monitor Module for one zone of conventional two-wire detectors. Requires resettable 24 VDC power. Refer to the *Device Compatibility Document* for listed compatible devices and quantity limitation.

FCM-1: Addressable Control Module for one Style Y/Z (Class B/A) zone of supervised polarized Notification Appliances. Mounts directly to a 4.0" (10.16 cm.) electrical box. NAC option requires external 24 VDC to power notification appliances.

NC-100: Addressable Control Module for one Style Y/Z (Class B/A)

zone of supervised polarized Notification Appliances. Mounts directly to a 4.0" (10.16 cm.) electrical box. NAC option requires external 24 VDC to power notification appliances.

FRM-1: Addressable relay module containing two isolated sets of Form-C contacts, which operate as a DPDT switch. Mounts directly to a 4.0" (10.16 cm.) box, surface mount using the SMB500.

NC-100R: Addressable relay module containing two isolated sets of Form-C contacts, which operate as a DPDT switch. Mounts directly to a 4.0" (10.16 cm.) box, surface mount using the SMB500.

NBG-12LX: Addressable manual pull station with interface module mounted inside.

NOT-BG12LX: Addressable manual pull station with interface module mounted inside.

ISO-X: Fault Isolator Module.

N100-ISO: Fault Isolator Module.

ISO-6: Six-fault isolator module. Mount one or two modules in a BB-XP cabinet (optional). Mount up to six modules on a CHS-6 chassis in a CAB-3/CAB-4 series cabinet.

SMB500: Used to mount all modules except FMM-101/NMM-100P.

NMM-100-10: Ten-input monitor module. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F cabinet.

NZM-100-6: Six-zone interface module. Mount one or two modules in a BB-XP cabinet (optional). Mount up to six modules on a CHS-6 chassis in a CAB-3/CAB-4 series cabinet.

SWIFT Wireless Devices

FWSG: Wireless Gateway

FWD-200P: intelligent, wireless photo detector.

FWH-200ROR135: LiteSpeed intelligent wireless rate of rise (135°) heat detector.

FWD-200ACCLIMATE: Wireless Acclimate Detector

FWH-200FIX135: intelligent wireless fixed-temperature (135°) heat detector.

FW-MM: Intelligent wireless monitor module.

FW-RM: Intelligent wireless relay module.

NBG-12LW: Intelligent wireless pull station.

WAV-RL, WAV-WL, WAV-CRL, WAV-CWL: Intelligent AV bases.

W-USB: Wireless USB radio/antenna dongle that plugs into the USB port of a PC running SWIFT Tools.

SWIFT Tools: Programming and diagnostic utility for the Wireless Gateway and devices. Available for download from firelite.com.

NOTE: For more information on Compatible Addressable Devices for use with the FireWarden-50X, see the following data sheets (document numbers): NP-200 Series (DN-60979), NH-200 Series (DN-60980), FSP-851 Series (DN-6935), FSP-951 Series (DN-60977), FST-851 Series (DN-6936), FST-951 Series (DN-60975), FAPT-851 (DN-6937), N100-ISO (DN-6994), NP-100 series (DN-6995), NH-100/NH-100R (DN-6997), DNR/InnovairFlex (DN-60424, DN-60429), NP-A100 (DN-6998), NMM-100/NMM-100P/NDM-100/NZM-100 (DN-6999), NC-100 (DN-7000), NC-100R (DN-60383), NMM-100-10 (DN-6990), MM-1/FDM-1/FZM-1/FMM-101 (DN-6720), FCM-1/FRM-1 (DN-6724), NOT-BG12LX (DN-7001), NBG-12LX (DN-6726), and FireWarden SLC Manual (52304).

ADDRESSABLE DEVICE ACCESSORIES

End-of-Line Resistor Assembly (R-47K and R-3.9K): The 47k ohm assembly supervises the FMM-1/NMM-100-10, FDM-1/NDM-100, FMM-101/NMM-100P, and FCM-1/NC-100 module circuits. The 3.9k ohm assembly supervises the XP6-MA/NZM-100-6 module circuit. These resistors are included with each module.

Power Supervision Relay: Supervises the power to 4-wire smoke detectors and notification appliances.

Wiring Requirements

While shielded wire is not required, it is recommended that all SLC wiring be twisted-pair to minimize the effects of electrical interference. Refer to the panel manual for wiring details.

System Capacity

- Intelligent Signaling Line Circuits..... 1
- Addressable device capacity 50
- Programmable software zones 50
- Annunciators..... 16

Electrical Specifications

AC Power: Operates in either 120 or 240 VAC, 50/60 Hz, 3.25 A, auto-sensing- no switch required. Wire size: minimum 14 AWG (2.00 mm²) with 600 V insulation. Nonpower-limited, supervised.

Battery: Two 12 V 18 AH lead-acid batteries. Battery Charger Capacity: 7-18 AH (FireWarden-50X cabinet holds maximum of two 18 AH batteries.)

Communication Loop: Supervised and power-limited.

Notification Appliance Circuits: Terminal Block provides connections for two NACs, Style Y (Class B) or Style Z (Class A). Special Application power. Power-limited, supervised circuitry. Maximum signaling current per circuit: 2.5 amps special application, 250mA regulated. End-of-Line Resistor: 4.7k ohm, ½ watt (P/N 71252 UL listed) for Style Y (Class B) NAC; system capable of 1.9 kΩ - 22 kΩ ELR range. Refer to the *NOTIFIER Device Compatibility Document* for listed compatible devices.

Two Programmable Relays and One Fixed Trouble Relay: Contact rating: 2.0 A @ 30 VDC (resistive), 0.5 A @ 30 VAC (resistive). Form-C relays, non-power-limited, non-supervised.

Cabinet Specifications

Door: 19.26" (48.92 cm.) high x 16.82" (42.73 cm.) wide x 0.72" (1.82 cm.) deep. **Backbox:** 19.00" (48.26 cm.) high x 16.65" (42.29 cm.) wide x 5.25" (13.34 cm.) deep. **Trim Ring (TR-CE/B):** 22.00" (55.88 cm.) high x 19.65" (49.91 cm.) wide.

Shipping Specifications

Weight: 26.9 lbs. (12.20 kg.) **Dimensions:** 20.00" (50.80 cm.) high x 22.5" (57.15 cm.) wide x 8.5" (21.59 cm.) deep.

Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

NFPA Standards

The FireWarden-50X complies with the following NFPA 72 Fire Alarm Systems requirements:

- **LOCAL** (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- **AUXILIARY** (Automatic, Manual and Waterflow) (requires 4XTM).
- **REMOTE STATION** (Automatic, Manual and Waterflow) (Where a DACT is not accepted, the alarm, trouble and supervisory relays may be connected to UL 864 listed transmitters. For reverse polarity signaling of alarm and trouble, 4XTM is required.)
- **PROPRIETARY** (Automatic, Manual and Waterflow).
- **CENTRAL STATION** (Automatic, Manual and Waterflow, and Sprinkler Supervised).
- **OT, PSDN** (Other Technologies, Packet-switched Data Network)
- **IBC 2012, IBC 2009, IBC 2006, IBC 2003, IBC 2000** (Seismic).
- **CBC 2007** (Seismic)

Agency Listings and Approvals

The listings and approvals below apply to the basic FireWarden-50X control panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S635
- **CSFM:** 7165-0028:0505
- **FDNY:** COA #6268



This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

NOTIFIER

12 Clintonville Road
Northford, CT 06472
203.484.7161
www.notifier.com

AlarmNet®, NOTIFIER®, FireWarden®, SWIFT®, and System Sensor® are registered trademarks of Honeywell International Inc. Microsoft® and Windows® are registered trademarks of the Microsoft Corporation.

©2018 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.

Country of Origin: USA



HW-AV-LTE-M CLSS PATHWAY

Connected Life Safety Services (CLSS) Dual-Path LTE Communicator with Dialer Capture Interface

The Honeywell® CLSS Pathway is a differentiated communications platform with dual SIM support for AT&T® and Verizon® and integrated features powered by the CLSS Cloud.

The CLSS Pathway combines dialer capture functionality with the powerful capabilities of Honeywell's CLSS Cloud. It represents the latest alarm communications technology for the fire industry. CLSS Pathway, an UL864 listed communicator allows data transfer from alarm systems at remote sites to any Central Monitoring Station and CLSS Cloud using LTE CAT-M1 network and LAN.

This device provides a single site-to-cloud path ensuring all CLSS Cloud services use the same audited and monitored method to access the on-premise life safety system.

HONEYWELL CONNECTED LIFE SAFETY SERVICES (CLSS)

Honeywell CLSS is an innovative, all-in-one cloud platform that enables systems integrators and facilities managers to deliver an enhanced fire safety service, while maximizing the performance efficiencies offered by Honeywell's trusted detection and alarm systems. The CLSS platform enables users to:

- Transmit Fire Alarm Control Panel events to Central Monitoring Station
- Get a "bird's eye" view of all accounts
- Obtain real-time information on event generation, enabling diagnosis before dispatch
- Conduct tests and inspections using a mobile app (available in select markets)
- Provide end users with multi-site asset information and event alerts
- Support contextual information for First Responders (available in select markets)

DUAL AT&T AND VERIZON SUPPORT

Equipped with dual SIM cards, the CLSS Pathway supports both AT&T and Verizon networks. When first powered on, the communicator connects through the primary cellular network (Verizon). If primary cellular pathway is not available, the device connects through the secondary cellular network (AT&T). Supports option to change the default primary cellular network from Verizon to AT&T using CLSS Mobile App or CLSS Site Manager.

SIMPLIFIED INSTALLATION

The CLSS Pathway is commissioned via the CLSS mobile app and CLSS Site Manager interface, which also allow for additional remote visibility.

Connection and mounting is simplified using the enclosure kit. The CLSS Pathway is compatible with any fire alarm dialer using Contact ID, SIA, or 4x2 format and automatically recognizes the format when powered up. Any number can be programmed into the panel phone numbers. Installers can select the central station service they wish to use from a list of approved central station providers. Only account numbers assigned by the central station must be programmed and the dialer selected for tone dialing output.

FEATURES AND BENEFITS

- CLSS enables monitoring of event transmission data & management of device inventory from the CLSS mobile app and web portal (available only when using point-based reporting)
- Meets UL864 requirements for Sole and Dual Path communications. Supports sole path communication leveraging redundant cell carriers (dual-SIM, Verizon, or AT&T) or a dual-path communication using IP as the primary path and redundant cellular carriers as the secondary path
- CLSS mobile app supports push and email notifications
- Remote firmware updates
- High reliability due to multiple transmission channels (LTE CAT-M1/LAN) and redundant servers
- Universal Panel Compatibility - Dialer capture interface supporting Contact ID, SIA or 4x2. (Supported SIA formats - SIA8, SIA20, SIA2000. Supported 4x2 frequencies - 1400 Hz, 2300 Hz)
- Unique "M1" Network is 5G ready, providing deep signal penetration that allows operation within buildings
- Four supervised inputs for non-dialer panels
- Exceptional Redundancy - Dual-SIM device. If one network becomes unavailable, the communicator connects to the other network
- Option to power directly by a 24-volt DC fire alarm power supply or use optional CLSS Pathway Power Supply for applications requiring a dedicated power source
- Connection monitoring - adjustable fault reporting time
- Web-based software and smartphone app for device configuration and administration



Metal enclosure (HW-AV-ENC) for housing CLSS Pathway (HW-AV-LTE-M)



CLSS Pathway (HW-AV-LTE-M)

Honeywell

HW-AV-LTE-M TECHNICAL SPECIFICATIONS

Characteristics	Imperial Unit	Metric Unit
Electrical		
Supply Voltage	+12 to +29 VDC	
Power Consumption	- Standby: 60 mA - Peak: 200 mA	
Frequency	LTE CAT-M1 700/850/1700/1900/2100 MHz	
Environment		
Operating Temperature	32°F to 120°F	0°C to 49°C
Relative humidity:	0% to 93% Non-condensing	
Physical		
Dimensions	3.54" L x 2.48" W x 1.26" D	90 mm L x 63 mm W x 32 mm D
Weight (without antenna)	2.56 oz	72.57 gm
RoHS	Yes	
Network Providers		
- AT&T, North America - Verizon, North America - Other cellular network providers in the area		

AGENCY LISTINGS AND APPROVALS

The listings and approvals below apply to the HW-AV-LTE-M Communicator. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Contact Honeywell for the latest listings.

- **UL Listed for UL864 Standard:** S35608
Note:
 - Check for UL receiver compatibility with Central Station
 - For UL installations, the communicator must be installed within Honeywell HW-AV-ENC metal enclosure or Altronix BC300R metal enclosure
- **ETL Listed for UL864 & UL1610 Standard:** 5013005
- **FCC**
- **CSFM:** 7300-1637: 0511
- **FDNY:** 2025-TMCOAP-005644-RENL
- **LAFD**

STANDARDS AND CODES

National Fire Protection Association:

- NFPA 70
- NFPA 72

Honeywell International, Inc.

www.fire.honeywell.com

ORDERING INFORMATION

- **HW-AV-LTE-M-2:** CLSS Pathway, Fire Alarm Dual Path Communicator, LTE Dual SIM, includes antenna, ETL & UL Listed HW-AV-LTE-M.
- **HW-AV-ENC:** Enclosure for the CLSS Pathway (HW-AV-LTE-M)

OPTIONAL EQUIPMENT

- **HW-AV-ENC2-PS:** 12V Power Supply with Metal Enclosure for CLSS Pathway (HW-AV-LTE-M-2 sold separately). Refer to datasheet HON-62199 for additional information

CUSTOMER SUPPLIED EQUIPMENT

Mobile Device for LTE Communicator configuration (either iOS or Android).

Android™ is a trademark of Google, Inc.

AT&T® is a registered trademark of the AT&T Properties, L.P.

Honeywell® is a registered trademark of Honeywell International, Inc.

iOS® is a registered trademark of Cisco Systems Inc. licensed by Apple Inc.

Verizon® is a registered trademark of Verizon Trademark Services LLC.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

THE
FUTURE
IS
WHAT
WE
MAKE IT

Honeywell

Monitor Modules

NMM-100(A), NMM-100P(A), NZM-100(A), and NDM-100(A) for FireWarden Series



Intelligent Addressable Devices

General

Four different monitor modules are available for Notifier's FireWarden Series intelligent control panels for a variety of applications. Monitor modules supervise a circuit of dry-contact input devices, such as conventional heat detectors and pull stations, or monitor and power a circuit of two-wire smoke detectors (NZM-100(A)).

NMM-100(A) is a standard-sized module (typically mounts to a 4" [10.16 cm] square box) that supervises either a Style D (Class A) or Style B (Class B) circuit of dry-contact input devices.

NMM-100P(A) is a miniature monitor module a mere 1.3" (3.302 cm) H x 2.75" (6.985 cm) W x 0.65" (1.651 cm) D that supervises a Style B (Class B) circuit of dry-contact input devices. Its compact design allows the NMM-100P(A) to be mounted in a single-gang box behind the device it monitors.

NZM-100(A) is a standard-sized module that monitors and supervises compatible two-wire, 24 volt, smoke detectors on a Style D (Class A) or Style B (Class B) circuit.

NDM-100(A) is a standard-sized dual monitor module that monitors and supervises two independent two-wire Style B (Class B) dry-contact initiating device circuits (IDCs) at two separate, consecutive addresses in intelligent, two-wire systems.

LiteSpeed™ is a communication protocol that greatly increases the speed of communication between analog intelligent devices. Intelligent devices communicate in a grouped fashion. If one of the devices within the group has new information, the panel CPU stops the group poll and concentrates on single points. The net effect is response speed greater than five times that of other communication protocols.

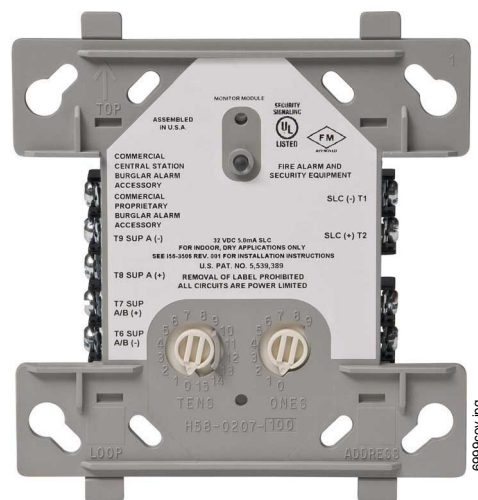
NMM-100(A) Monitor Module

- Built-in type identification automatically identifies this device as a monitor module to the control panel.
- Powered directly by two-wire SLC loop. No additional power required.
- High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct-dial entry of address: 01 – 99 on FireWarden-100-2, 01 – 50 on FireWarden-50.
- LED flashes during normal operation and latches on steady to indicate alarm.

The NMM-100(A) Monitor Module is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. It provides either a two-wire or four-wire fault-tolerant Initiating Device Circuit (IDC) for normally-open-contact fire alarm and supervisory devices. The module has a panel-controlled LED indicator.

NMM-100(A) APPLICATIONS

Use to monitor a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally-open dry-contact alarm activation devices. May also be used



NMM-100(A) (Type H)

to monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class A) Initiating Device Circuit. A 47K Ohm End-of-Line Resistor (provided) terminates the Style B circuit. No resistor is required for supervision of the Style D circuit.

NMM-100(A) OPERATION

Each NMM-100(A) uses one of the available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations on the loop).

NMM-100(A) SPECIFICATIONS

Nominal operating voltage: 15 to 32 VDC.

Maximum current draw: 5.0 mA (LED on).

Average operating current: 375 μ A (LED flashing), 1 communication every 5 seconds, 47k EOL.

Maximum IDC wiring resistance: 1500 Ohms.

Maximum IDC Voltage: 11 Volts.

EOL resistance: 47K Ohms.

Temperature range: 32°F to 120°F (0°C to 49°C).

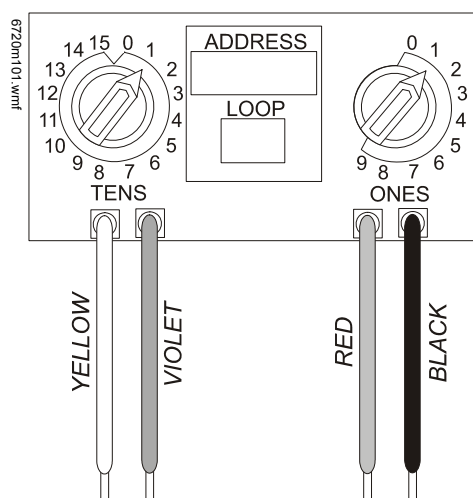
Humidity range: 10% to 93% noncondensing.

Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box.

NMM-100P(A) Mini Monitor Module

- Built-in type identification automatically identifies this device as a monitor module to the panel.

- Powered directly by two-wire SLC loop. No additional power required.
- High noise (EMF/RFI) immunity.
- Tinned, stripped leads for ease of wiring.
- Direct-dial entry of address: 01 – 99 on FireWarden-100-2, 01 – 50 on FireWarden-50.



The NMM-100P(A) Mini Monitor Module can be installed in a single-gang junction directly behind the monitored unit. Its small size and light weight allow it to be installed without rigid mounting. The NMM-100P(A) is intended for use in intelligent, two-wire systems where the individual address of each module is selected using rotary switches. It provides a two-wire initiating device circuit for normally-open-contact fire alarm and security devices. NMM-100P(A)

NMM-100P(A) APPLICATIONS

Use to monitor a single device or a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally-open dry-contact devices. May also be used to monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit/device is wired as an NFPA Style B (Class B) Initiating Device Circuit. A 47K Ohm End-of-Line Resistor (provided) terminates the circuit.

NMM-100P(A) OPERATION

Each NMM-100P(A) uses one of the available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC).

NMM-100P(A) SPECIFICATIONS

Nominal operating voltage: 15 to 32 VDC.

Average operating current: 350 μ A, 1 communication every 5 seconds, 47k EOL; 600 μ A Max. (Communicating, IDC Shorted).

Maximum IDC wiring resistance: 1500 Ohms.

Maximum IDC Voltage: 11 Volts.

Maximum IDC Current: 450 μ A.

EOL resistance: 47K Ohms.

Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% noncondensing.

Dimensions: 1.3" (3.302 cm) high x 2.75" (6.985 cm) wide x 0.65" (1.651 cm) deep.

Wire length: 6" (15.24 cm) minimum.

NZM-100(A) Interface Module

- Supports compatible two-wire smoke detectors.
- Supervises IDC wiring and connection of external power source.
- High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct-dial entry entry of address:, 01 – 99 on FireWarden-100-2, 01 – 50 on FireWarden-50.
- LED flashes during normal operation.
- LED latches steady to indicate alarm on command from control panel.

The NZM-100(A) Interface Module is intended for use in intelligent, addressable systems, where the individual address of each module is selected using built-in rotary switches. This module allows intelligent panels to interface and monitor two-wire conventional smoke detectors. It transmits the status (normal, open, or alarm) of one full zone of conventional detectors back to the control panel. All two-wire detectors being monitored must be UL compatible with the module.

NZM-100(A) APPLICATIONS

Use the NZM-100(A) to monitor a zone of two-wire smoke detectors. The monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class A) Initiating Device Circuit. A 3.9 K Ohm End-of-Line Resistor (provided) terminates the end of the Style B or D (class B or A) circuit (maximum IDC loop resistance is 25 Ohms). Install ELR across terminals 8 and 9 for Style D application.

NZM-100(A) OPERATION

Each NZM-100(A) uses one of the available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations on the loop).

NZM-100(A) SPECIFICATIONS

Nominal operating voltage: 15 to 32 VDC.

Maximum current draw: 5.1 mA (LED on).

Maximum IDC wiring resistance: 25 Ohms.

Average operating current: 270 μ A, 1 communication and 1 LED flash every 5 seconds, 3.9k eol.

EOL resistance: 3.9K Ohms.

External supply voltage (between Terminals T10 and T11):

- DC voltage: 24 volts power limited.
- Ripple voltage: 0.1 Vrms maximum.
- Current: 90 mA per module maximum.

Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% noncondensing.

Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box.

NDM-100(A) Dual Monitor Module

The NDM-100(A) Dual Monitor Module is intended for use in intelligent, two-wire systems. It provides two independent two-wire initiating device circuits (IDCs) at two separate, consecutive addresses. It is capable of monitoring normally open contact fire alarm and supervisory devices. The module has a single panel-controlled LED.

NOTE: The NDM-100(A) provides two Style B (Class B) IDC circuits ONLY. Style D (Class A) IDC circuits are NOT supported in any application.

NDM-100(A) SPECIFICATIONS

Normal operating voltage range: 15 to 32 VDC.

Maximum current draw: 6.4 mA (LED on).

Average operating current: 750 μ A (LED flashing).

Maximum IDC wiring resistance: 1,500 Ohms.

Maximum IDC Voltage: 11 Volts.

Maximum IDC Current: 240 μ A

EOL resistance: 47K Ohms.

Temperature range: 32° to 120°F (0° to 49°C).

Humidity range: 10% to 93% (non-condensing).

Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box.

NDM-100(A) AUTOMATIC ADDRESSING

The NDM-100(A) automatically assigns itself to two addressable points, starting with the original address. For example, if the NDM-100(A) is set to address "26", then it will automatically assign itself to addresses "26" and "27".

NOTE: "Ones" addresses on the NDM-100(A) are 0, 2, 4, 6, or 8 only. Terminals 6 and 7 use the first address, and terminals 8 and 9 use the second address.



CAUTION:

Avoid duplicating addresses on the system.

Installation

NMM-100(A), NZM-100(A), and NDM-100(A) modules mount directly to a standard 4" (10.16 cm) square, 2.125" (5.398 cm) deep, electrical box. They may also be mounted to the SMB500 surface-mount box. Mounting hardware and installation instructions are provided with each module. All wiring must conform to applicable local codes, ordinances, and regulations. These modules are intended for power-limited wiring only.

The NMM-100P(A) module is intended to be wired and mounted without rigid connections inside a standard electrical box. All wiring must conform to applicable local codes, ordinances, and regulations.

Agency Listings and Approvals

In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S635.
- **ULC:** S635.
- **FM Approved.**

- **CSFM:** 7300-0028:0230 (NMM-100, NMM-100P, NZM-100); 7300-0028:0237 (NDM-100).
- **MEA:** 72-01-E Vol. 2 (NMM-100, NMM-100P, NZM-100); 227-03-E Vol. 3 (NDM-100).

Product Line Information

NOTE: "A" suffix indicates ULC-listed model.

NMM-100(A): Monitor module.

NMM-100P(A): Monitor module, miniature.

NZM-100(A): Monitor module, two-wire detectors.

NDM-100(A): Monitor module, dual, two independent Class B circuits.

SMB500: Optional surface-mount backbox.

NOTE: See installation instructions and refer to the SLC Wiring Manual, PN 52304.

Notifier® and FireWarden® are registered trademarks and LiteSpeed™ and FireWatch™ are trademarks of Honeywell International Inc.
©2015 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.



This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

For more information, contact Notifier. Phone: (203) 484-7161, FAX: (203) 484-7118.
www.notifier.com

NP-200 Series Photoelectric Smoke Detectors for FireWarden Series

The NOTIFIER® NP-200 Series intelligent plug-in smoke detectors are designed for both performance and aesthetics, and are direct replacements for the NP-100 Series. A new modern, sleek, contemporary design and enhanced optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources in accordance with more stringent code standards.

Exclusively for use with NOTIFIER's FireWarden Series addressable fire alarm control panels, the NP-200 Series point ID capability allows each detector's address to be set with rotary, decimal address switches, providing exact detector location for emergency personnel to quickly locate a fire during its early stages, potentially saving precious rescue time while also reducing property damage. Two LEDs on each sensor light to provide a local, visible sensor indication.

The NP-200 Series also offers 135°F (57°C) fixed temperature thermal sensing on the NP-200T and a remote test capable detector on the NP-200R for use with DNR(A)/DNRW duct smoke detector housings.

Features

SLC LOOP:

- Two-wire SLC loop connection
- Unit uses base for wiring
- Compatible with FlashScan® and CLIP protocol systems
- Stable communication technique with noise immunity

ADDRESSING:

- Addressable by device
- Rotary, decimal addressing
(Refer to the *FireWarden panel manuals* for device capacity.)

ARCHITECTURE:

- Sleek, low-profile, stylish design
- Unique single-source design to respond quickly and dependably to a broad range of fires
- Integral communications and built-in device-type identification
- Built-in tamper resistant feature
- Remote test feature from the panel
- Walk test with address display (an address on 121 will blink the detector LED: 12-[pause]-1(*FlashScan systems only*))
- Built-in functional test switch activated by external magnet
- Removable cover and insect-resistant screen for simple field cleaning
- Expanded color options

OPERATION:

- Designed to meet UL 268 7th Edition
- Factory preset at 1.5% nominal sensitivity for panel alarm threshold level
- LED "blinks" when the unit is polled (communicating with the fire panel) and latches in alarm.
- Low standby current

MECHANICALS:

- Sealed against back pressure
- SEMS screws for wiring of the separate base
- Designed for direct-surface or electrical-box mounting
- Plugs into separate base for ease of installation and maintenance



- Separate base allows interchange of photoelectric, ionization and thermal sensors

OPTIONS:

- Optional relay, isolator, and sounder bases

Installation

NP-200 Series plug-in intelligent smoke detectors use a detachable base to simplify installation, service and maintenance. Installation instructions are shipped with each detector.

Mount detector base (all base types) on an electrical backbox which is at least 1.5" (3.81 cm) deep. For a chart of compatible junction boxes, see DN-60054.

NOTE: Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class "B") wiring only. When using relay or sounder bases, consult the N100-ISO installation sheet I56-3625 for device limitations between isolator modules and isolator bases.

Construction

These detectors are constructed of fire-resistant plastic. The NP-200 Series plug-in intelligent smoke detectors are designed to commercial standards and offer an attractive appearance.

Operation

Each NP-200 Series detector uses one of the panel's addresses (total limit is panel dependent) on the FireWarden Signaling Line Circuit (SLC). It responds to regular polls from the control panel and reports its type and the status. If it receives a test command from the panel (or a local magnet test), it stimulates its electronics and reports an alarm. It blinks its LEDs when polled and turns the LEDs on when commanded by the panel. The NP-200 Series offers features and performance that represent the latest in smoke detector technology.

Detector Sensitivity Test

Each detector can have its sensitivity tested (required per NFPA 72, Chapter 14 on *Inspection, Testing and Maintenance*) when installed/connected to an FireWarden Series addressable fire alarm control panel. The results of the sensitivity test can be printed for record keeping.

Product Line Information

NOTE: “-IV” suffix indicates CLIP and FlashScan device.

NP-200: White, low-profile intelligent photoelectric sensor, FlashScan only

NP-200-IV: Ivory, low-profile intelligent photoelectric sensor

NP-200T: White, same as but includes a built-in 135°F (57°C) fixed-temperature thermal device, FlashScan only

NP-200T-IV: Ivory, same as T but includes a built-in 135°F (57°C) fixed-temperature thermal device

NP-200R: White, low-profile intelligent photoelectric sensor, remote test capable, for use with DNR/DNRW, FlashScan only

NP-200R-IV: Ivory, low-profile intelligent photoelectric sensor, remote test capable, for use with DNR/DNRW

INTELLIGENT BASES

NOTE: For details on intelligent bases, see DN-60981.

B300-6: White, 6" base, standard flanged low-profile mounting base (CSFM: 7300-1653:0109)

B300-6-IV: Ivory, 6" base, standard flanged low-profile mounting base (CSFM: 7300-1653:0109)

B300-6-BP: Bulk pack of B300-6, package contains 10

B501-WHITE: White, 4" standard European flangeless mounting base. UL/ULC listed (CSFM: 7300-1653:0109)

B501-BL: Black, 4" standard European flangeless mounting base. UL/ULC listed (CSFM: 7300-1653:0109)

B501-IV: Ivory color, 4" standard European flangeless mounting base. UL/ULC listed (CSFM: 7300-1653:0109)

B501-WHITE-BP: Bulk pack of B501-WHITE contains 10

B224RB-WH: White, relay base (CSFM: 7300-1653:0216)

B224RB-IV: Ivory, relay base (CSFM: 7300-1653:0216)

B224BI-WH: White, isolator detector base (CSFM: 7300-1653:0216)

B224BI-IV: Ivory isolator detector base (CSFM: 7300-1653:0216)

B200S-WH: White, Intelligent addressable sounder base capable of producing sound output in high or low volume with ANSI Temporal 3, ANSI Temporal 4, continuous tone, marching tone, and custom tone. Uses FlashScan protocol. (CSFM: 7300-1653:0213)

B200S-IV: Ivory, Intelligent addressable sounder base capable of producing sound output in high or low volume with ANSI Temporal 3, ANSI Temporal 4, continuous tone, marching tone, and custom tone. Uses FlashScan protocol. (CSFM: 7300-1653:0213)

B200S-LF-WH: White, Low Frequency Intelligent, programmable sounder base. Produces a fundamental frequency of 520 Hz +/- 10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement. (CSFM: 7300-1653:0238)

B200S-LF-IV: Ivory, Low Frequency Intelligent, programmable sounder base. Produces a fundamental frequency of 520 Hz +/- 10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement. (CSFM: 7300-1653:0238)

B200SR-WH: White, Intelligent sounder base capable of producing sound output with ANSI Temporal 3 or continuous tone. Intended for retrofit applications. (CSFM: 7300-1653:0213)

B200SR-IV: Ivory, Intelligent sounder base capable of producing sound output with ANSI Temporal 3 or continuous tone. Intended for retrofit applications. (CSFM: 7300-1653:0213)

B200SR-LF-WH: White, Low Frequency Intelligent, programmable sounder base. Produces a fundamental frequency of 520 Hz +/- 10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement. Intended for retrofit applications. (CSFM: 7300-1653:0238)

B200SR-LF-IV: Ivory, Low Frequency Intelligent, programmable sounder base. Produces a fundamental frequency of 520 Hz +/- 10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement. Intended for retrofit applications. (CSFM: 7300-1653:0238)

MOUNTING KITS AND ACCESSORIES

TR300: White, replacement flange for B210LP(A) base

TR300-IV: Ivory, replacement flange for B210LP(A) base

RA100Z(A): Remote LED annunciator. 3-32 VDC. Mounts to a U.S. single-gang electrical box. For use with B501(A) and B300-6(A).

M02-04-00: Test magnet

M02-09-00: Test magnet with telescoping handle

CK300: Color Kit (includes cover and trim ring), white, 10-pack

CK300-IV: Color Kit (includes cover and trim ring), ivory, 10-pack

CK300-BL: Color Kit (includes cover and trim ring), black, 10-pack

Sensitivity:

- UL Applications: 0.5% to 4.0% per foot obscuration.
- ULC Applications: 0.5% to 3.5% per foot obscuration

Size: 2.0" (5.3 cm) high; base determines diameter

- **B300-6:** 6.1" (15.6 cm) diameter
- **B501:** 4" (10.2 cm) diameter

For a complete list of detector bases see DN-60981

Shipping weight: 3.4 oz. (95 g)

Operating temperature range:

- NP-200: 32°F to 122°F (0°C to 50°C)
- NP-200T Series: 32°F to 100°F (0°C to 38°C)
- NP-200R Series installed in a DNR/DNRW, -4°F to 158°F (-20°C to 70°C)

UL/ULC Listed Velocity Range: 0-4000 ft/min. (1219.2 m/min.), suitable for installation in ducts

Relative humidity: 10% – 93% non-condensing

Thermal ratings: fixed-temperature set point 135°F (57°C), rate-of-rise detection 15°F (8.3°C) per minute, high temperature heat 190°F (88°C)

ELECTRICAL SPECIFICATIONS

Voltage range: 15 - 32 volts DC peak

Standby current (max. avg.): 200µA @ 24 VDC (one communication every 5 seconds with LED enabled)

Max current: 4.5 mA @ 24 VDC ("ON")

DETECTOR SPACING AND APPLICATIONS

NOTIFIER recommends spacing detectors in compliance with NFPA 72. In low airflow applications with smooth ceiling, space detectors 30 feet (9.1m). For specific information regarding detector spacing, placement, and special applications refer to NFPA 72. A *System Smoke Detector Application Guide*, document A05-1003, is available at www.systemsensor.com.

Listings and Approvals

Listings and approvals below apply to the NP-200 Series detectors. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL/ULC Listing: S1115
- FM Approved
- CSFM: 7272-0028:0503



This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

FireWarden®, FlashScan®, NOTIFIER®, and System Sensor® are registered trademarks of Honeywell International, Inc.

©2019 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.

Country of Origin: Mexico

NOTIFIER

12 Clintonville Road
Northford, CT 06472
203.484.7161
www.notifier.com



NOT-BG12LX**Addressable Manual Pull Station**

Intelligent/Addressable Devices

General

The Notifier NOT-BG12LX is a state-of-the-art, dual-action (i.e., requires two motions to activate the station) pull station that includes an addressable interface for FireWarden series intelligent control panels, and the NSP-25 panel. Because the NOT-BG12LX is addressable, the control panel can display the exact location of the activated manual station. This leads fire personnel quickly to the location of the alarm.

Features

- Maintenance personnel can open station for inspection and address setting without causing an alarm condition.
- Built-in bicolor LED, which is visible through the handle of the station, flashes in normal operation and latches steady red when in alarm.
- Handle latches in down position and the word "ACTIVATED" appears to clearly indicate the station has been operated.
- Captive screw terminals wire-ready for easy connection to SLC loop (accepts up to 12 AWG/3.25 mm² wire).
- Can be surface mounted (with SB-10 or SB-I/O) or semi-flush mounted. Semi-flush mount to a standard single-gang, double-gang, or 4" (10.16 cm) square electrical box.
- Smooth dual-action design.
- Meets ADAAG controls and operating mechanisms guidelines (Section 4.1.3[13]); meets ADA requirement for 5 lb. maximum activation force.
- Highly visible.
- Attractive shape and textured finish.
- Key reset.
- Includes Braille text on station handle.
- Optional trim ring (BG12TR).
- Meets UL 38, Standard for Manually Actuated Signaling Boxes.

Construction

Shell, door, and handle are molded of durable polycarbonate material with a textured finish.

Specifications

- **Shipping Weight:** 9.6 oz. (272.15 g)
- **Normal operating voltage:** 24 VDC.
- **Maximum SLC loop voltage:** 28.0 VDC.
- **Maximum SLC standby current:** 375 μ A.
- **Maximum SLC alarm current:** 5 mA.
- **Temperature Range:** 32°F to 120°F (0°C to 49°C)
- **Relative Humidity:** 10% to 93% (noncondensing)
- **For use indoors in a dry location**

Installation

The NOT-BG12LX will mount semi-flush into a single-gang, double-gang, or standard 4" (10.16 cm) square electrical outlet box, or will surface mount to the model SB-10 or SB-I/O surface backbox. If the NOT-BG12LX is being semi-flush mounted, then the optional trim ring (BG12TR) may be used.



**The NOT-BG12LX
Addressable Manual Pull Station**

The BG12TR is usually needed for semi-flush mounting with 4" (10.16 cm) or double-gang boxes (not with single-gang boxes).

Operation

Pushing in, then pulling down on the handle causes it to latch in the down/activated position. Once latched, the word "ACTIVATED" (in bright yellow) appears at the top of the handle, while a portion of the handle protrudes from the bottom of the station. To reset the station, simply unlock the station with the key and pull the door open. This action resets the handle; closing the door automatically resets the switch.

Each manual station, on command from the control panel, sends data to the panel representing the state of the manual switch. Two rotary decimal switches allow address settings (1 – 99 on NFW2-100/NFW2-100C, 1 – 50 for NFW-50/NFW-50C).

Architectural/Engineering Specifications

Manual Fire Alarm Stations shall be non-coded, with a key-operated reset lock in order that they may be tested, and so designed that after actual Emergency Operation, they cannot be restored to normal except by use of a key. An operated station shall automatically condition itself so as to be visually detected as activated. Manual stations shall be constructed of red-colored polycarbonate material with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in white letters, 1.00 inches (2.54 cm) or larger. Stations shall be suitable for surface mounting on matching backbox SB-10 or SB-I/O; or semi-flush mounting on a standard single-gang, double-gang, or 4" (10.16 cm) square electrical box, and shall be installed

within the limits defined by the Americans with Disabilities Act (ADA) or per national/local requirements. Manual Stations shall be Underwriters Laboratories listed.

Manual stations shall connect with two wires to one of the control panel SLC loops. The manual station shall, on command from the control panel, send data to the panel representing the state of the manual switch. Manual stations shall provide address setting by use of rotary decimal switches.

Product Line Information

NOT-BG12LX: Dual-action addressable pull station. Includes key locking feature. (Listed for Canadian and non-Canadian applications.)

SB-10: Surface backbox; metal.

SB-I/O: Surface backbox; plastic.

BG12TR: Optional trim ring.

17021: Keys, set of two.

Agency Listings and Approvals

In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL/ULC Listed:** S692 (listed for Canadian and non-Canadian applications).
- **MEA:** 67-02-E Vol. IV.
- **CSFM:** 7150-0028:0199.
- **FM Approved.**

Patented: U.S. Patent No. D428,351; 6,380,846; 6,314,772; 6,632,108.

NOTIFIER® is a registered trademark of Honeywell International Inc.
©2012 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.



This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

For more information, contact Notifier. Phone: (203) 484-7161, FAX: (203) 484-7118.
www.notifier.com



Made in the U.S. A.

GB Series

GB10, GB6, & GBB Fire Alarm Bells

20 units per carton, 44 pounds per carton (GB6) / 50 pounds per carton (GB10)

Applications

The GB Series provide durable and dependable operation required for life safety alarm systems.

Alarm bells are low current, high decibel notification appliances for use in fire and burglary systems or other signaling applications. The GB Series is available in 24 VDC or 120 VAC.

The GB Series is available in 6" or 10" housing and listed for indoor and outdoor applications. Bells must be used with the GBBB box for outdoor use.

The GB Series is ANSI/UL 464 listed and the units are warranted for 3 years from the date of purchase.

Standard Features

- Available in 24 VDC or 120 VAC
- Available in 6" or 10" housing
- Four wire 24 VDC or 120 VAC operation
- High dbA output
- Mounts to a standard 4" square electrical box
- ANSI/UL listed for outdoor use when used with the GBBB back box
- 18 AWG wire leads
- Available in red metal finish

GB 24 VDC / GB 120 VAC Fire Alarm Bell

Model Number	Part Number	Voltage	Housing Size	Current Draw (mA)	dbA at 10ft.
GB6-24	904-1278-002	24 VDC	6"	100 mA	95 dBA
GB10-24	904-1279-002	24 VDC	10"	100 mA	96 dBA
GB6-120	904-1280-002	120 VAC	6"	46 mA	95 dBA
GB10-120	904-1281-002	120 VAC	10"	46 mA	98 dBA

Notes

- Indoor operating temperature: 32° to 120°F (0° to 49°C)
- Outdoor operating temperature: -31° to 150°F (-35° to 65.6°C)
- GBBB back box part number; 901-0242-000
- GBBB back box dimensions: 4.25" (10.80 cm) square x 1.5" (3.81 cm) deep



Product Listings

SIGNALING



- ANSI/UL 464 Listed
- CSFM: 7135-0569:139
- MEA #285-91-E

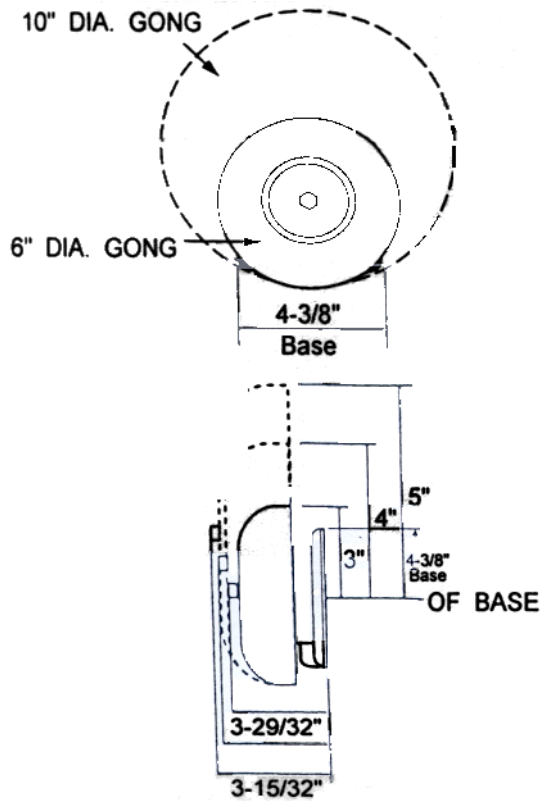
Product Compliance

- NFPA 72
- Quality Management System is certified to: ISO 9001:2008

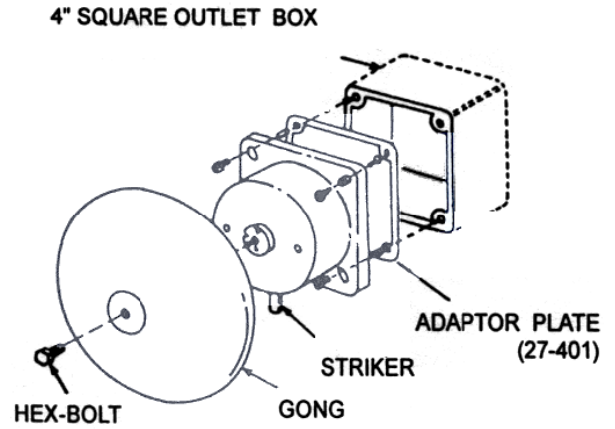
GB Series

GB10, GB6, & GBB Fire Alarm Bells

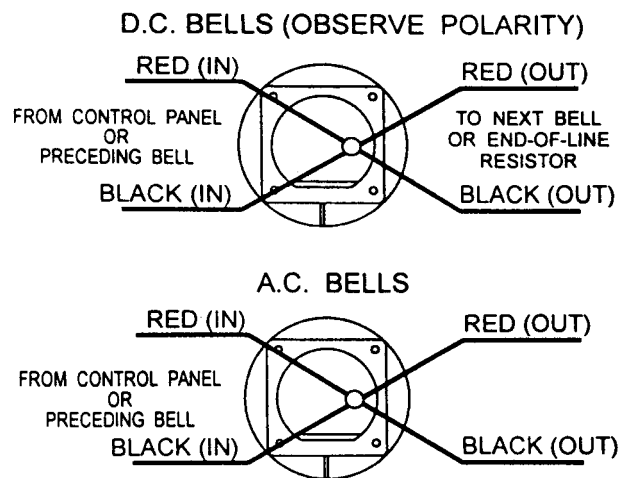
Dimensions



Mini-Horn Mounting



Wiring Diagrams



Architect & Engineering Specifications

The fire alarm bell shall be Gentex GB Series or approved equal and shall be listed by Underwriters Laboratories (ANSI/UL) for use with fire protective signaling systems (ANSI/UL 464). The notification appliance shall produce a peak sound output of 95 dBA or greater as measured in an anechoic chamber. The fire alarm bell shall have an operating current of 100 mA or less at 24 VDC and 46 mA or less at 120 VAC. The appliance shall be polarized to allow for electrical supervision of the system wiring. The unit will mount to a double gang box or double workbox without the use of an adapter plate. The GB unit must be used with the GBBB outdoor box for outdoor applications to meet ANSI/UL listing requirements.

GENTEX
CORPORATION

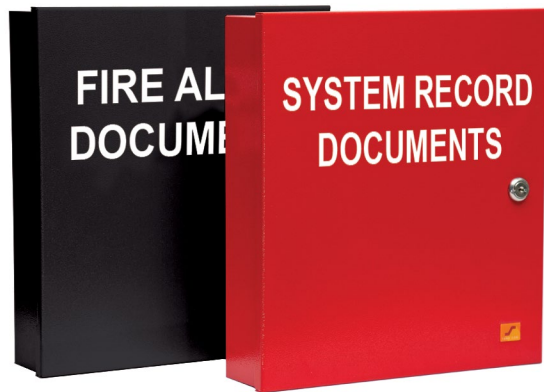
Fire Protection Products Group | 10985 Chicago Drive | Zeeland, MI 49464
gentex.com | Phone: 616.392.7195 | Toll-free: 800.436.8391 | Fax: 616.392.4219

551-0042-04

Important Notice: These materials have been prepared by Gentex Corporation ("Gentex") for informational purposes only, are necessarily summary, and are not purported to serve as legal advice and should not be used as such. Gentex makes no representations and warranties, express or implied, that these materials are complete and accurate, up-to-date, or in compliance with all relevant local, state and federal laws, regulations and rules. The materials do not address all legal considerations as there is inevitable uncertainty regarding interpretation of laws, regulations and rules and the application of such laws, regulations and rules to particular fact patterns. Each person's activities can differently affect the obligations that exist under applicable laws, regulations or rules. Therefore, these materials should be used only for informational purposes and should not be used as a substitute for seeking professional legal advice. Gentex will not be responsible for any action or failure to act in reliance upon the information contained in this material. Gentex Corporation reserves the right to make changes to the product data sheet at their discretion.



BY SPACE AGE ELECTRONICS



FEATURES

- 18 gauge cold rolled steel construction with red or black powder coat and white lettering
- Dimensions are 12" wide x 13" tall and 3" deep
- Liftaway hinge
- Removable document holder with two key ring hooks and business card bracket
- Slide tab allows user to select USB-C or Micro USB connector to download from 8GB digital flash memory

CUSTOM BRANDING AVAILABLE



FAD/SRD ACE-11

Document Boxes

Store important system documents in a secure location with a cabinet built specifically to meet code requirements.

Select models include our innovative 8GB flash drive slide tab that allows the user to select a USB-C or Micro USB connector to access records electronically.

SPECIFICATIONS

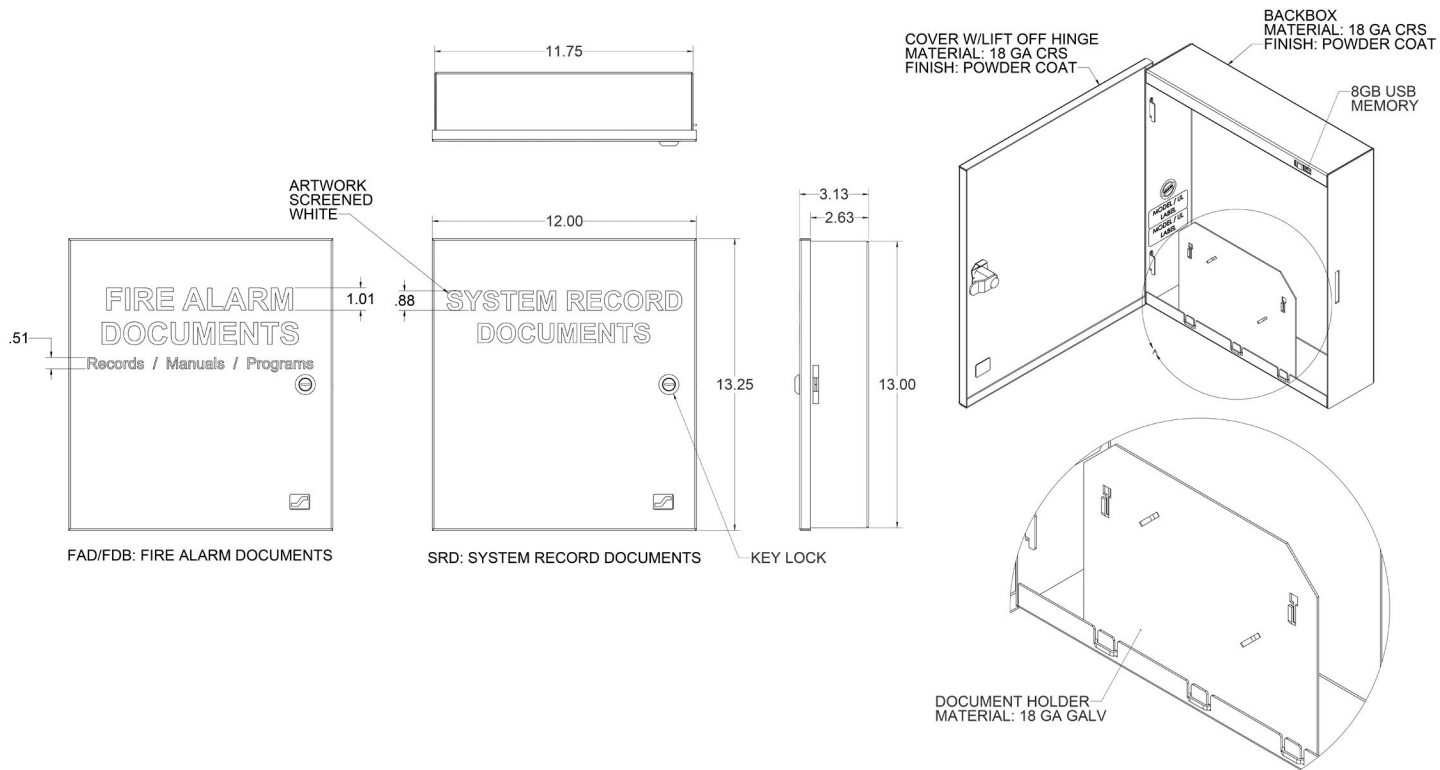
The FAD and SRD Documents Box shall be UL Listed, constructed of 18 gauge cold rolled steel. It shall have a powder coat finish. The cover shall be permanently screened with 1" high lettering "FIRE ALARM DOCUMENTS" or "SYSTEM RECORD DOCUMENTS" with white indelible ink. The access door shall be locked with a 3/4" barrel lock and there will be a liftaway hinge. Models with digital storage will have a minimum of 8 gigabyte digital flash memory drive with a slide tab that allows user to select USB-C or Micro USB connector for uploading and downloading information. The enclosure will supply 4 mounting holes. Inside will accommodate standard 8 1/2" x 11" manuals, three-ring binders, and document records. The enclosure shall also provide 2 key ring holders with a location to mount standard business cards for key contact personnel.

CODE REFERENCE

- | | |
|----------------------|--------------------|
| • NFPA13 16.11.1.3 | • NFPA72 7.5.6.7.1 |
| • NFPA13 16.11.1.3.1 | • NFPA72 7.5.6.7.2 |
| • NFPA13 16.11.1.3.2 | • NFPA72 7.7.2.1 |
| • NFPA13 16.11.1.3.3 | • NFPA72 7.7.2.3 |
| • NFPA13 16.11.1.3.4 | • NFPA72 7.7.2.5 |
| | • NFPA72 23.2.2.1 |



DIMENSIONS



ORDERING INFORMATION

P/N#	Cover Text	Color	Custom Screening	USB Storage
SSU00672	Fire Alarm Documents	Red	No	No
SSU00673	Fire Alarm Documents	Red	Yes	No
SSU00685	Fire Alarm Documents	Red	No	Yes
SSU00686	Fire Alarm Documents	Red	Yes	Yes
SSU00689	System Record Documents	Red	No	Yes
SSU00690	System Record Documents	Red	Yes	Yes
SSU01672C	Fire Alarm Documents	Black	Yes	No
SSU01689	System Record Documents	Black	No	Yes
SSU01690	System Record Documents	Black	Yes	Yes

PART NUMBER 767960

UL Listed and Rated Type FPLP Multi-Conductor Non-Shielded Plenum Fire Alarm

■ 0275/0725 FT ● FIRE/LIFE SAFETY CONTROL CABLE INIT/IND DEVICE/ZONE ABCDE0123456789



CABLE SPECIFICATIONS

DESCRIPTION	14 AWG 2 Conductor Bare Copper, Twisted, Non-Shielded Plenum Fire Alarm, FPLP (UL)
CONDUCTOR	14 (Solid Bare Copper)
INSULATION	Low-Smoke PVC .010"
COLOR CODE	Black/Red
LAY LENGTH	3.75" LHL (3.2 TPF)
SHIELD	N/A
DRAIN WIRE	N/A
JACKET	Low-Smoke PVC .018"
JACKET COLOR	Red Jacket
MARKING	FIRE/LIFE SAFETY CONTROL CABLE INIT. / IND. DEVICE / ZONE A B C D E 0 1 2 3 4 5 6 7 8 9 14 AWG FPLP (UL) ROHS MADE IN THE USA
OVERALL DIAMETER	.206" Nom
CABLE WEIGHT	36 Lbs/Mft.
CAPACITANCE	26 pF/Ft. Nom.
IMPEDANCE	72 Ohms
DC RESISTANCE	2.57 Ohms/Mft @ 20 deg. C
TEMPERATURE RATING	0 C to 75 C / 300 Volt

INDUSTRY STANDARDS

FLAME RATING	Approved For Plenum Use Without Conduit Per NFPA 262 Flame Test
AGENCY APPROVALS	NEC Article 760; FPLP (UL), RoHS Compliant, Made in the USA



All specifications referenced are nominal measurements unless otherwise noted.



WINDY CITY WIRE • T 800.379.1191 • windycitywire.com

© Windy City Wire, Cable Technology & Products, LLC.
All rights reserved.

PART NUMBER **729100**

UL Listed and Rated Type FPLR Multi-Conductor Non-Shielded Non-Plenum Fire Alarm



CABLE SPECIFICATIONS

DESCRIPTION	14 AWG 2 Conductor Bare Copper, Twisted, Non-Shielded Non-Plenum Fire Alarm, FPLR (UL)
CONDUCTOR	14 (Solid Bare Copper)
INSULATION	PVC .010"
COLOR CODE	Black/Red
LAY LENGTH	3.75" LHL (approx. 3.2 TPF)
SHIELD	N/A
DRAIN WIRE	N/A
JACKET	PVC .018"
JACKET COLOR	Red Jacket
MARKING	FIRE/LIFE SAFETY CONTROL CABLE INIT. / IND. DEVICE / ZONE A B C D E 0 1 2 3 4 5 6 7 8 9 14 AWG FPLR (UL) 75C ROHS MADE IN THE USA
OVERALL DIAMETER	.206" Nom.
CABLE WEIGHT	45 Lbs/Mft.
CAPACITANCE	26 pF/Ft. Nom.
IMPEDANCE	72 Ohms
DC RESISTANCE	2.57 Ohms/Mft @ 20 deg. C
TEMPERATURE RATING	0 C to 75 C / 300 Volt

INDUSTRY STANDARDS

AGENCY APPROVALS	NEC Article 760; FPLR (UL), RoHS Compliant, Made in the USA
------------------	---



All specifications referenced are nominal measurements unless otherwise noted.

PART NUMBER **762360**

UL Listed and Rated Type FPLP Multi-Conductor Non-Shielded Plenum Fire Alarm

■ 0275/0725 FT ● FIRE/LIFE SAFETY CONTROL CABLE INIT/IND DEVICE/ZONE ABCDE0123456789



CABLE SPECIFICATIONS

DESCRIPTION	18 AWG 2 Conductor Bare Copper, Twisted, Non-Shielded Plenum Fire Alarm, FPLP (UL)
CONDUCTOR	18 (Solid Bare Copper)
INSULATION	Low-Smoke PVC .010"
COLOR CODE	Black/Red
LAY LENGTH	3.0" LHL (4 TPF)
SHIELD	N/A
DRAIN WIRE	N/A
JACKET	Low-Smoke PVC .018"
JACKET COLOR	Red Jacket
MARKING	FIRE/LIFE SAFETY CONTROL CABLE INIT. / IND. DEVICE / ZONE A B C D E 0 1 2 3 4 5 6 7 8 9 18 AWG FPLP (UL) ROHS MADE IN THE USA
OVERALL DIAMETER	.158" Nom.
CABLE WEIGHT	22 Lbs/Mft.
CAPACITANCE	22 pF/Ft. Nom.
IMPEDANCE	86 Ohms
DC RESISTANCE	6.52 Ohms/Mft @ 20 deg. C
TEMPERATURE RATING	0 C to 75 C / 300 Volt

INDUSTRY STANDARDS

FLAME RATING	Approved For Plenum Use Without Conduit Per NFPA 262 Flame Test
AGENCY APPROVALS	NEC Article 760; FPLP (UL), RoHS Compliant, Made in the USA



All specifications referenced are nominal measurements unless otherwise noted.

PART NUMBER 727100

UL Listed and Rated Type FPLR Multi-Conductor Non-Shielded Non-Plenum Fire Alarm

■ 0275/0725 FT ● FIRE/LIFE SAFETY CONTROL CABLE INIT/IND DEVICE/ZONE ABCDE0123456789



CABLE SPECIFICATIONS

DESCRIPTION	18 AWG 2 Conductor Bare Copper, Twisted, Non-Shielded Non-Plenum Fire Alarm, FPLR (UL)
CONDUCTOR	18 (Solid Bare Copper)
INSULATION	PVC .010"
COLOR CODE	Black/Red
LAY LENGTH	3.0" LHL (4 TPF)
SHIELD	N/A
DRAIN WIRE	N/A
JACKET	PVC .018"
JACKET COLOR	Red Jacket
MARKING	FIRE/LIFE SAFETY CONTROL CABLE INIT. / IND. DEVICE / ZONE A B C D E 0 1 2 3 4 5 6 7 8 9 18 AWG FPLR (UL) 75C ROHS MADE IN THE USA
OVERALL DIAMETER	.158" Nom.
CABLE WEIGHT	22 Lbs/Mft.
CAPACITANCE	22 pF/Ft. Nom.
IMPEDANCE	86 Ohms
DC RESISTANCE	6.52 Ohms/Mft @ 20 deg. C
TEMPERATURE RATING	0 C to 75 C / 300 Volt

INDUSTRY STANDARDS

AGENCY APPROVALS NEC Article 760; FPLR (UL), RoHS Compliant, Made in the USA



All specifications referenced are nominal measurements unless otherwise noted.



WINDY CITY WIRE • T 800.379.1191 • windycitywire.com

© Windy City Wire, Cable Technology & Products, LLC.
All rights reserved.