

SFP-5UD(E)/SFP-10UD(E)

Five Zone Fire Alarm Control Panel
Ten Zone Fire Alarm Control Panel



Conventional Fire Alarm Control Panels

General

The SFP-5UD is a five-zone FACP (Fire Alarm Control Panel) and the SFP-10UD is a ten-zone FACP. These control panels provide reliable fire signaling protection for small to medium-sized commercial, industrial, and institutional buildings. Both panels include built-in communicators for Central Station Service and remote upload/download.

Each of these FACP's is compatible with System Sensor's microprocessor-based i³ series detectors. These conventional smoke detectors can transmit a maintenance trouble signal to the FACP indicating the need for cleaning and a supervisory "freeze" signal when the ambient temperature falls below the detector rating. Additionally, both the SFP-5UD and SFP-10UD are compatible with conventional input devices such as two- and four-wire smoke detectors, pull stations, waterflow devices, tamper switches, and other normally-open contact devices. Refer to Notifier Device Compatibility Document for a complete listing of compatible devices.

Outputs include four NACs (Notification Appliance Circuits), three programmable Form-C relays (factory programmed for Alarm, Trouble, and Supervisory) and 24 VDC special application resettable and nonresettable power outputs. The FACP's supervise all wiring, AC voltage, battery level and telephone line integrity.

Activation of a compatible smoke detector or any normally-open fire alarm initiating device will activate audible and visual signaling devices, illuminate an indicating LED, sound the piezo sounder at the FACP, activate the communicator and FACP alarm relay, and operate an optional module used to notify a remote station or initiate an auxiliary control function.

The SFP-5UDE and the SFP-10UDE offer the same features as the SFP-5UD and SFP-10UD but allow connection to 220/240 VAC.

NOTE: Unless otherwise specified, the information in this data sheet applies to both the 110/120 VAC and the 220/240 VAC versions of these panels.

Features

- Listed to UL Standard 864, 9th edition.
- Built-in DACT (Digital Alarm Communicator/Transmitter)
- Style B (Class B) IDC (Initiating Device Circuit)
 - SFP-5UD - five IDCs.
 - SFP-10UD - ten IDCs.
- Style Y (Class B) NAC (Notification Appliance Circuit) - special application power
 - SFP-5UD - four NACs.
 - SFP-10UD - four NACs.
- Notification Appliances may be programmed as
 - Silence Inhibit.
 - Auto-Silence.
 - Strobe Synchronization for System Sensor, Wheelock, Gentex, Faraday, or Amseco devices.
 - Selective Silence (horn-strobe mute).
 - Temporal or Steady Signal.
 - Silenceable or Nonsilenceable.



- Optional N-CAC-5X Style Z (Class A) Converter Module for NACs and IDCs (2 required for SFP-10UD).
- Form-C Relays for Alarm, Trouble and Supervisory - Contact Ratings 2.0 A@ 30 VDC or 30 VAC (resistive).
- 3.0 A total system current for SFP-5UD.
- 7.0 A total system current for SFP-10UD.
- Optional Trim Ring TR-CE/-B for semi-flush mounting.
- 24 volt operation.
- Low AC voltage sense.
- Alarm Verification.
- PAS (Positive Alarm Sequence).
- Automatic battery trickle charger.
- Optional Remote Annunciator N-ANN-80.
- Optional Remote Printer Gateway N-ANN-S/PG.
- Optional LED Annunciator Driver N-ANN-I/O.
- Optional 4XTM module (conventional reverse polarity/city box transmitter).

PROGRAMMING AND SOFTWARE:

- Can be programmed at the panel with no special software or additional equipment.
- Programmable Make/Break Ratio.

USER INTERFACE:

- Built-in DACT (Digital Alarm Communicator/Transmitter).
- Integral 80-character LCD display with backlighting and keypad.
- Real-time clock/calendar with automatic daylight savings adjustments.
- ANN-Bus for connection to remote annunciators.
- Audible or silent walk test capabilities.
- Piezo sounder for alarm, trouble, and supervisory.

Controls and Indicators

LED INDICATORS

- FIRE ALARM (red)

- SUPERVISORY (yellow)
- TROUBLE (yellow)
- AC POWER (green)
- ALARM SILENCED (yellow)

CONTROL BUTTONS

- ACKNOWLEDGE
- ALARM SILENCE
- SYSTEM RESET (lamp test)
- DRILL

Terminal Blocks

AC Power – TB1:

- SFP-5UD (FLPS-3 Power Supply): 120 VAC, 50/60 HZ, 1.00 A.
- SFP-5UDE (FLPS-3 Power Supply): 220 VAC, 50 HZ, 0.54 A
- SFP-10UD (FLPS-7 Power Supply): 120 VAC, 50/60 HZ, 3.8 A
- SFP-10UDE (FLPS-7 Power Supply): 220 VAC, 50 HZ, 2.20 A

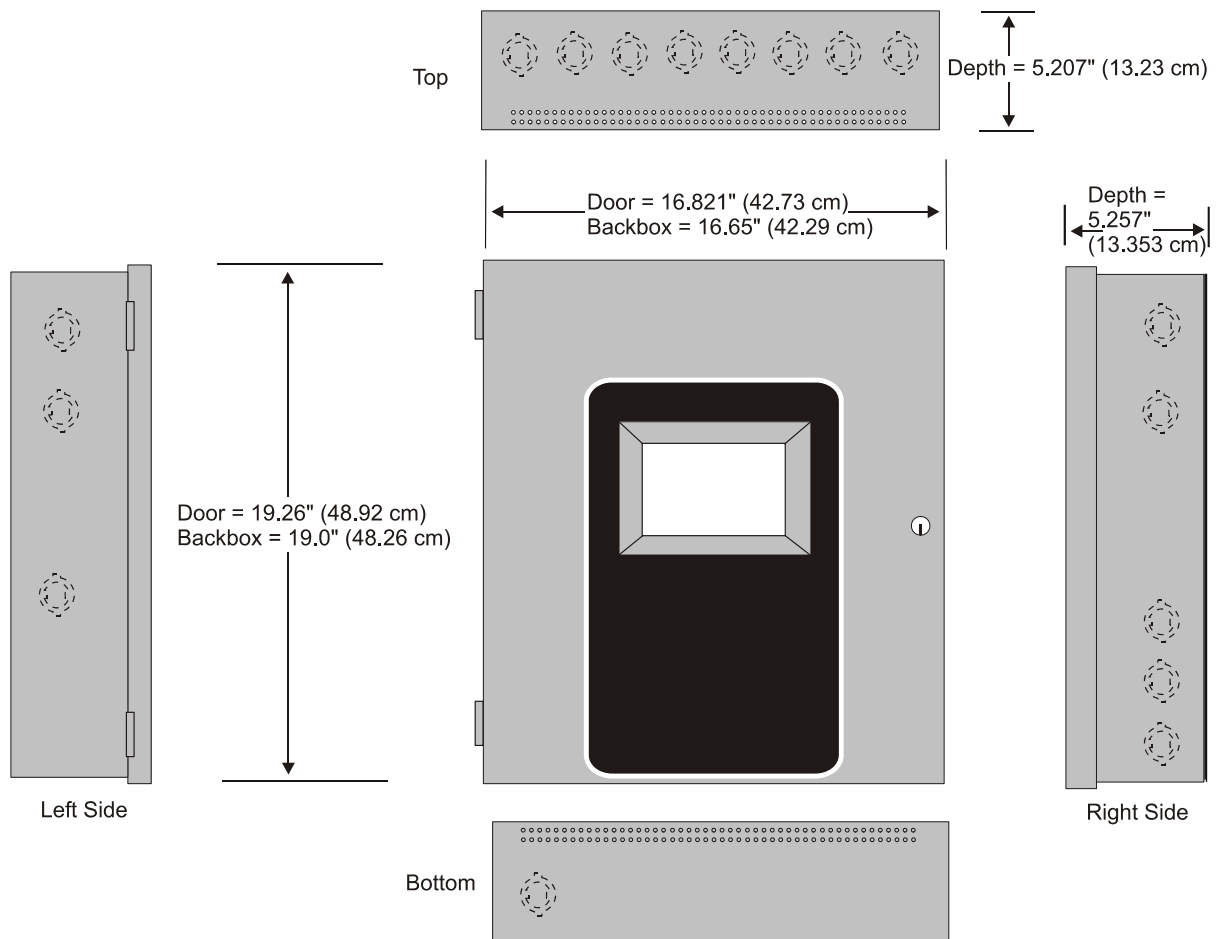
Wire size: minimum 14 AWG (2.00 mm²) with 600 V insulation. Supervised, nonpower-limited.

Battery (sealed lead acid only) – J12:

- Maximum Charging Circuit - Normal Flat Charge: 27.6 VDC @ 1.4 A. Supervised, nonpower-limited
- Maximum Charger Capacity: 18 AH battery for SFP-5UD(E), and 26 AH battery for SFP-10UD(E). [Two 18 Ah batteries can be housed in the FACP cabinet. Larger batteries require separate battery box such as the BB-26 or NFS-LBB.]
- Minimum Battery Size: 7 AH

Initiating Device Circuits – TB4 (and TB 6 on SFP-10UD only):

- Alarm Zones 1 - 5 on TB 4 (SFP-5UD and SFP-10UD)
- Alarm Zones 6 - 10 on TB6 (SFP-10UD only)
- Supervised and power-limited circuitry
- Operation: All zones Style B (Class B)
- Normal Operating Voltage: Nominal 20 VDC
- Alarm Current: 15 mA minimum
- Short Circuit Current: 40 mA max.
- Maximum Loop Resistance: 100 ohms



Cabinet measurements

- End-of-Line Resistor: 4.7K ohm, 1/2 watt (P/N 71252 UL-listed)
- Standby Current: 2 mA

Refer to Notifier *Device Compatibility Document* for listed compatible devices

Notification Appliance Circuits – TB5 (and TB 7 on SFP-10UD only):

- Four NACs
- Operation: Style Y (Class B)
- Special Application power
- Supervised and power-limited circuitry
- Normal Operating Voltage: Nominal 24 VDC
- Maximum Signaling Current: 3.0 A for SFP-5UD(E), 2.5 A maximum per NAC; 7.0 A for SFP-10UD(E), 3.0 A maximum per NAC.
- End-of-Line Resistor: 4.7K ohm, 1/2 watt (Part #71252)
- Max. Wiring Voltage Drop: 2 VDC

Refer to Notifier *Device Compatibility Document* for compatible listed devices

Form C Relays – TB8:

- *Relay 1* (factory default programmed as Alarm Relay).
- *Relay 2* (factory default programmed as fail-safe Trouble Relay).
- *Relay 3* (factory default programmed as Supervisory Relay)

Special Application Resettable Power – TB9:

- Jumper selectable by JP31 for resettable or nonresettable power.
- Operating voltage: 24 VDC nominal.
- Maximum available current: 500 mA - appropriate for powering four-wire smoke detectors.
- Power-limited circuit.

Refer to Notifier *Device Compatibility Document* for listed compatible devices.

Remote Sync Output - TB2: Remote power supply synchronization output, only required for the SFP-5UD(E). 24 VDC nominal special application power. Maximum current is 40 mA. End-of-Line Resistor: 4.7K ohm. Supervised and power-limited circuit.

Ordering Information

SFP-5UD: Five-zone, 24-volt Fire Alarm Control Panel (includes black backbox, FLPS-3 power supply, technical manual, and a frame & post operating instruction sheet).

SFP-5UDR: Same as above in a red backbox.

SFP-5UDE: Same as above with 220 VAC FLPS-3 power supply.

SFP-10UD: Ten-zone, 24-volt Fire Alarm Control Panel (includes black backbox, FLPS-7 power supply, technical manual, and a frame & post operating instruction sheet).

SFP-10UDR: Same as above in a red backbox.

SFP-10UDE: Same as above with 220 VAC FLPS-7.

OPTIONAL MODULES

N-CAC-5X: Optional Style Z (Class A) Converter Module. Converts Style B (Class B) Notification Appliance Circuits to Style D (Class A) and Style Y (Class B). Connects to J2 on the SFP-5UD and SFP-10UD main circuit board and to J7 on the SFP-10UD.

NOTE: Two Class A Converter Modules are required for the ten-zone panel.

4XTM: Transmitter module. Provides a supervised output for local energy municipal box transmitter and alarm and trouble reverse polarity. Includes a disable switch and disable trouble LED. A module jumper option allows the reverse polarity circuit to open with a system trouble condition if no alarm conditions exists. Mounts to the main circuit board connectors J4 and J5.

COMPATIBLE ANNUNCIATORS

N-ANN-80: Remote LCD Annunciator. Mimics the information displayed on the FACP's LCD.

N-ANN-S/PG: Serial/parallel printer gateway. Provides a connection for a serial or parallel printer.

N-ANN-I/O: Driver module. Provides connections to a user-supplied graphic annunciator.

ACCESSORIES

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

NFS-LBB: Battery backbox, holds up to two 55 AH batteries. Black.

NFS-LBBR: Same as above in red.

TR-CE-B: Optional black trim-ring for semi-flush mounted cabinets.

TR-CE: Same as above in red.

SYSTEM SPECIFICATIONS

System Capacity

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Electrical Specifications

- **SFP-5UD (FLPS-3 Power Supply):** 120 VAC, 50/60 HZ, 1.0 A
- **SFP-10UD (FLPS-7 Power Supply):** 120 VAC, 50/60 HZ, 3.8 A
- **SFP-5UDE (FLPS-3 Power Supply):** 240 VAC, 50/60 HZ, 0.54 A
- **SFP-10UDE (FLPS-7 Power Supply):** 240 VAC, 50/60 HZ, 2.2 A
- **Wire size:** minimum 14 AWG (2.0 mm²) with 600 V insulation, supervised, nonpower-limited

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):** 22.00" (55.88 cm.) high x 19.65" (49.91 cm.) wide.

Shipping Specifications

Dimensions:

- 20.00" (50.80 cm.) high
- 22.5" (57.15 cm.) wide
- 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.

Agency Listings and Approvals

The listings and approvals below apply to the basic SFP-5UD and SFP-10UD control panels. 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 Listed:** File S635

NFPA Standards

The SFP-5UD(E)/SFP-10UD(E) 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).

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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.



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Ten Zone Fire Alarm Control Panel



Conventional Fire Alarm Control Panels

General

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Each of these FACP's is compatible with System Sensor's microprocessor-based i³ series detectors. These conventional smoke detectors can transmit a maintenance trouble signal to the FACP indicating the need for cleaning and a supervisory "freeze" signal when the ambient temperature falls below the detector rating. Additionally, both the SFP-5UD and SFP-10UD are compatible with conventional input devices such as two- and four-wire smoke detectors, pull stations, waterflow devices, tamper switches, and other normally-open contact devices. Refer to Notifier Device Compatibility Document for a complete listing of compatible devices.

Outputs include four NACs (Notification Appliance Circuits), three programmable Form-C relays (factory programmed for Alarm, Trouble, and Supervisory) and 24 VDC special application resettable and nonresettable power outputs. The FACP's supervise all wiring, AC voltage, battery level and telephone line integrity.

Activation of a compatible smoke detector or any normally-open fire alarm initiating device will activate audible and visual signaling devices, illuminate an indicating LED, sound the piezo sounder at the FACP, activate the communicator and FACP alarm relay, and operate an optional module used to notify a remote station or initiate an auxiliary control function.

The SFP-5UDE and the SFP-10UDE offer the same features as the SFP-5UD and SFP-10UD but allow connection to 220/240 VAC.

NOTE: Unless otherwise specified, the information in this data sheet applies to both the 110/120 VAC and the 220/240 VAC versions of these panels.

Features

- Listed to UL Standard 864, 9th edition.
- Built-in DACT (Digital Alarm Communicator/Transmitter)
- Style B (Class B) IDC (Initiating Device Circuit)
 - SFP-5UD - five IDCs.
 - SFP-10UD - ten IDCs.
- Style Y (Class B) NAC (Notification Appliance Circuit) - special application power
 - SFP-5UD - four NACs.
 - SFP-10UD - four NACs.
- Notification Appliances may be programmed as
 - Silence Inhibit.
 - Auto-Silence.
 - Strobe Synchronization for System Sensor, Wheelock, Gentex, Faraday, or Amseco devices.
 - Selective Silence (horn-strobe mute).
 - Temporal or Steady Signal.
 - Silenceable or Nonsilenceable.



- Optional N-CAC-5X Style Z (Class A) Converter Module for NACs and IDCs (2 required for SFP-10UD).
- Form-C Relays for Alarm, Trouble and Supervisory - Contact Ratings 2.0 A@ 30 VDC or 30 VAC (resistive).
- 3.0 A total system current for SFP-5UD.
- 7.0 A total system current for SFP-10UD.
- Optional Trim Ring TR-CE/-B for semi-flush mounting.
- 24 volt operation.
- Low AC voltage sense.
- Alarm Verification.
- PAS (Positive Alarm Sequence).
- Automatic battery trickle charger.
- Optional Remote Annunciator N-ANN-80.
- Optional Remote Printer Gateway N-ANN-S/PG.
- Optional LED Annunciator Driver N-ANN-I/O.
- Optional 4XTM module (conventional reverse polarity/city box transmitter).

PROGRAMMING AND SOFTWARE:

- Can be programmed at the panel with no special software or additional equipment.
- Programmable Make/Break Ratio.

USER INTERFACE:

- Built-in DACT (Digital Alarm Communicator/Transmitter).
- Integral 80-character LCD display with backlighting and keypad.
- Real-time clock/calendar with automatic daylight savings adjustments.
- ANN-Bus for connection to remote annunciators.
- Audible or silent walk test capabilities.
- Piezo sounder for alarm, trouble, and supervisory.

Controls and Indicators

LED INDICATORS

- FIRE ALARM (red)

- SUPERVISORY (yellow)
- TROUBLE (yellow)
- AC POWER (green)
- ALARM SILENCED (yellow)

CONTROL BUTTONS

- ACKNOWLEDGE
- ALARM SILENCE
- SYSTEM RESET (lamp test)
- DRILL

Terminal Blocks

AC Power – TB1:

- SFP-5UD (FLPS-3 Power Supply): 120 VAC, 50/60 HZ, 1.00 A.
- SFP-5UDE (FLPS-3 Power Supply): 220 VAC, 50 HZ, 0.54 A
- SFP-10UD (FLPS-7 Power Supply): 120 VAC, 50/60 HZ, 3.8 A
- SFP-10UDE (FLPS-7 Power Supply): 220 VAC, 50 HZ, 2.20 A

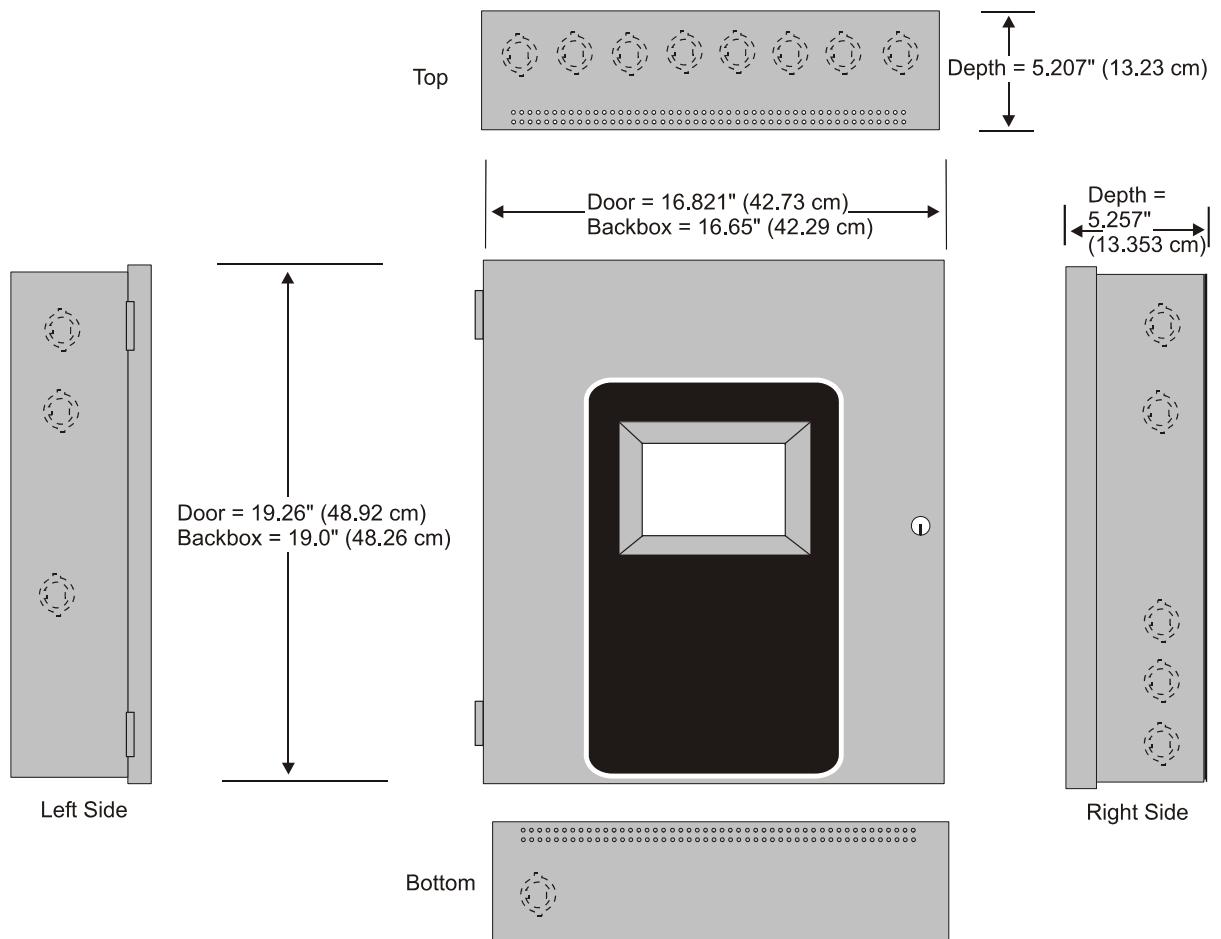
Wire size: minimum 14 AWG (2.00 mm²) with 600 V insulation. Supervised, nonpower-limited.

Battery (sealed lead acid only) – J12:

- Maximum Charging Circuit - Normal Flat Charge: 27.6 VDC @ 1.4 A. Supervised, nonpower-limited
- Maximum Charger Capacity: 18 AH battery for SFP-5UD(E), and 26 AH battery for SFP-10UD(E). [Two 18 Ah batteries can be housed in the FACP cabinet. Larger batteries require separate battery box such as the BB-26 or NFS-LBB.]
- Minimum Battery Size: 7 AH

Initiating Device Circuits – TB4 (and TB 6 on SFP-10UD only):

- Alarm Zones 1 - 5 on TB 4 (SFP-5UD and SFP-10UD)
- Alarm Zones 6 - 10 on TB6 (SFP-10UD only)
- Supervised and power-limited circuitry
- Operation: All zones Style B (Class B)
- Normal Operating Voltage: Nominal 20 VDC
- Alarm Current: 15 mA minimum
- Short Circuit Current: 40 mA max.
- Maximum Loop Resistance: 100 ohms



Cabinet measurements

- End-of-Line Resistor: 4.7K ohm, 1/2 watt (P/N 71252 UL-listed)
- Standby Current: 2 mA

Refer to Notifier *Device Compatibility Document* for listed compatible devices

Notification Appliance Circuits – TB5 (and TB 7 on SFP-10UD only):

- Four NACs
- Operation: Style Y (Class B)
- Special Application power
- Supervised and power-limited circuitry
- Normal Operating Voltage: Nominal 24 VDC
- Maximum Signaling Current: 3.0 A for SFP-5UD(E), 2.5 A maximum per NAC; 7.0 A for SFP-10UD(E), 3.0 A maximum per NAC.
- End-of-Line Resistor: 4.7K ohm, 1/2 watt (Part #71252)
- Max. Wiring Voltage Drop: 2 VDC

Refer to Notifier *Device Compatibility Document* for compatible listed devices

Form C Relays – TB8:

- *Relay 1* (factory default programmed as Alarm Relay).
- *Relay 2* (factory default programmed as fail-safe Trouble Relay).
- *Relay 3* (factory default programmed as Supervisory Relay)

Special Application Resettable Power – TB9:

- Jumper selectable by JP31 for resettable or nonresettable power.
- Operating voltage: 24 VDC nominal.
- Maximum available current: 500 mA - appropriate for powering four-wire smoke detectors.
- Power-limited circuit.

Refer to Notifier *Device Compatibility Document* for listed compatible devices.

Remote Sync Output - TB2: Remote power supply synchronization output, only required for the SFP-5UD(E). 24 VDC nominal special application power. Maximum current is 40 mA. End-of-Line Resistor: 4.7K ohm. Supervised and power-limited circuit.

Ordering Information

SFP-5UD: Five-zone, 24-volt Fire Alarm Control Panel (includes black backbox, FLPS-3 power supply, technical manual, and a frame & post operating instruction sheet).

SFP-5UDR: Same as above in a red backbox.

SFP-5UDE: Same as above with 220 VAC FLPS-3 power supply.

SFP-10UD: Ten-zone, 24-volt Fire Alarm Control Panel (includes black backbox, FLPS-7 power supply, technical manual, and a frame & post operating instruction sheet).

SFP-10UDR: Same as above in a red backbox.

SFP-10UDE: Same as above with 220 VAC FLPS-7.

OPTIONAL MODULES

N-CAC-5X: Optional Style Z (Class A) Converter Module. Converts Style B (Class B) Notification Appliance Circuits to Style D (Class A) and Style Y (Class B). Connects to J2 on the SFP-5UD and SFP-10UD main circuit board and to J7 on the SFP-10UD.

NOTE: Two Class A Converter Modules are required for the ten-zone panel.

4XTM: Transmitter module. Provides a supervised output for local energy municipal box transmitter and alarm and trouble reverse polarity. Includes a disable switch and disable trouble LED. A module jumper option allows the reverse polarity circuit to open with a system trouble condition if no alarm conditions exists. Mounts to the main circuit board connectors J4 and J5.

COMPATIBLE ANNUNCIATORS

N-ANN-80: Remote LCD Annunciator. Mimics the information displayed on the FACP's LCD.

N-ANN-S/PG: Serial/parallel printer gateway. Provides a connection for a serial or parallel printer.

N-ANN-I/O: Driver module. Provides connections to a user-supplied graphic annunciator.

ACCESSORIES

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

NFS-LBB: Battery backbox, holds up to two 55 AH batteries. Black.

NFS-LBBR: Same as above in red.

TR-CE-B: Optional black trim-ring for semi-flush mounted cabinets.

TR-CE: Same as above in red.

SYSTEM SPECIFICATIONS

System Capacity

- Annunciators 8

Electrical Specifications

- **SFP-5UD (FLPS-3 Power Supply):** 120 VAC, 50/60 HZ, 1.0 A
- **SFP-10UD (FLPS-7 Power Supply):** 120 VAC, 50/60 HZ, 3.8 A
- **SFP-5UDE (FLPS-3 Power Supply):** 240 VAC, 50/60 HZ, 0.54 A
- **SFP-10UDE (FLPS-7 Power Supply):** 240 VAC, 50/60 HZ, 2.2 A
- **Wire size:** minimum 14 AWG (2.0 mm²) with 600 V insulation, supervised, nonpower-limited

Cabinet Specifications

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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.

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- **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).

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