Simplex

*UL, CSFM Listed, NYC Fire Dept. Approved**

Datasheet

4017ES Voice Fire Alarm Control Units

4017ES Fire Detection and Control Unit with Non-Addressable NAC

Introduction

The 4017ES Series Fire Detection and Control Units include extensive installation, operator, and service features. They have point and module capacities suitable for a wide range of system applications. You can configure fire alarm control units (FACUs) for stand-alone or networked fire control operation. You can use the color touchscreen for quick access for system response actions and for detailed system review or configuration updates. The touchscreen has password control to limit user access.

Standard conventional initiating device circuits (IDC) and addressable IDNet2 communications are compatible with new and retrofit systems. For IDC and notification appliance circuits (NAC), you can select end-of-line (EOL) resistor values to match a wide range of existing initiating device circuits and NACs.

Features

The 4017ES is compatible with Simplex ES Net fire alarm networks.

Operator interface:

- Displays detailed system status and point information.
- Features a 4.3 in. (109 mm) color touchscreen display.
- Supports dual language selection. This includes Unicode+ languages.
- Displays a custom background when operation is normal.

Mechanical

- Red or platinum color enclosure
- Semi-flush or surface mounted
- Rated NEMA 1 and IP30

IDNet2 addressable initiating device SLC

- Supports monitoring and control of TrueAlarm analog sensors and IDNet communications monitoring and control devices.
- Supports Class A or Class B.
- Supports a maximum of 250 points. The default panel includes up to 100 addressable points. Each optional loop expansion module includes an additional 75 addressable points. Supports a maximum of two modules.

Power supply

- Four notification appliance circuits (NACs), selectable as Class A or Class B with 6 A of total available current, for special applications.
- Selectable NAC EOL resistor value from a wide range of values for retrofit convenience.
- Charges up to 33 Ah for batteries mounted in a remote battery cabinet and up to 18 Ah for panel-mounted batteries.
- The remote unit interface (RUI) supports up to 47 remote devices.
- Simple NAC/Relay.

Audio controller interface

- Digital audio riser (DAR), single channel. Wired as Class A, Class B, or Class X.
- Three audio inputs
- Can receive ES Net Network Audio
- Supports messaging by use of Live Audio
- Embedded onboard microphone

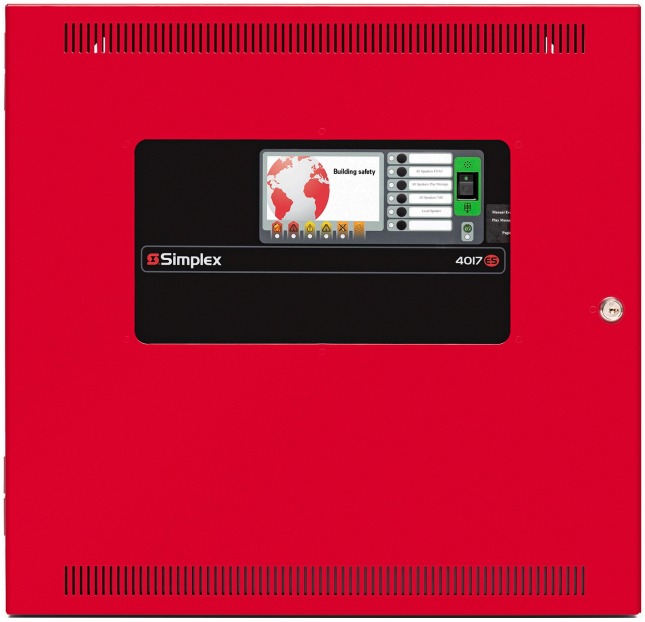
Amplifier

- Includes one 50 W speaker circuit
- Supports Class A or Class B
- 25 V rms or 70.7 V rms, software selectable
- You can add one expansion amplifier to expand the total wattage to 100 W or use as a backup amplifier. Use of it as a backup amplifier, requires a NAC Expander module.

Software

- The current and previous FACU configuration is maintained in memory.
- Internal Ethernet service port for configuration updates, downloads and uploads, reports, and system software updates
- USB interface to facilitate removable copies

Figure 1: 4017ES Fire Alarm Control Unit



Optional modules and connections include

- Network interface card (NIC) for ES Net network Class A or Class X operation
- Point or Event digital alarm communicating transmitter (DACT) for Connected Services Gateway
- IDNet2 Addressable Loop
- Front-mounted 32 LED and LED/Switch annunciator modules
- Remote annunciators
- Remote Amplifiers and Audio Stations
- Alarm and Aux relays
- City connections, with or without disconnect switches
- 4009 IDNet NAC Extenders
- Battery brackets for seismic area protection

4017ES listings reference

- UL 864: Control Units, Systems (UOJZ). Control Unit Accessories, System, Fire Alarm (UOXX). Control Units, Releasing Service (SYZV)
- UL 2017: Emergency Alarm System Control Units (CO Detection), (FSZI)
- ULC-S559: Central Station Fire Alarm System Units (DAYRC)

*This product has been approved by the California State Fire Marshall (CSFM) pursuant to section 13144.1 of the California Health and Safety Code. See CSFM Listing 7165-0026:0522 for allowable values and/or conditions concerning material presented in this document. NYC Fire Dept. 2025-TMCOAP-003106-CERT. Additional listings may be applicable; contact your local product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

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4017ES panel compatibility with ES Net

You can upgrade ES FACUs to operate on an ES network by adding an ES Net NIC to the panel.

To upgrade an existing 4120 network to ES Net, you must replace all of the 4120 NIC cards on the network loop with ES Net NICs.

Note: Do not mix ES Net NICs and 4120 NICs on the same network loop.

For more detailed information about ES Net, refer to datasheet *ES Net Network Applications, Communications, Options and Specifications (S4100-0076)*, and talk to your local Simplex product supplier.

Operator interface

Clearly visible status information

If the lockable door is closed, you can view the display status of the LEDs through the window. The UI has a 4.3 in. (109 mm) diagonal color touchscreen LCD and separate status LEDs. See Figure 2.

LEDs indicate the general category of activity displayed and the LCD displays more detail. Authorized users can unlock the door to gain access to the control functions and scroll through the display for additional detail.

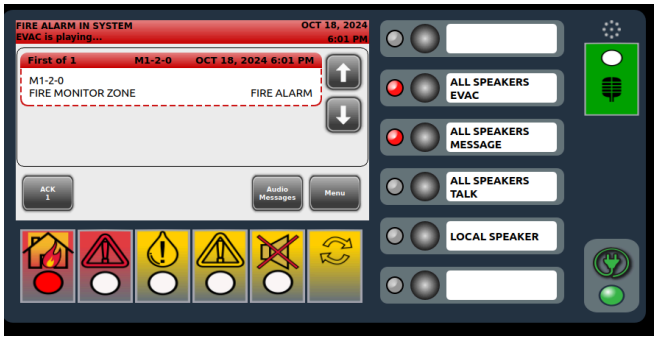
Operator interface and software features

- Detailed operator information is accessible through a logical, menu-driven touchscreen display with password access control.
- Physical Acknowledge, Silence, and Reset buttons for common operations.
- Multiple automatic and manual diagnostics for maintenance reduction.
- Alarm and Trouble History logs with up to 1,000 entries for each and 2,000 events in total. You can view these events from the display, or print them out on a connected printer, or download them to a service computer.
- The module-level ground fault search locates and isolates modules with grounded wiring to assist installation and service.
- WALKTEST silent or audible system test performs an automatic self- reset test cycle and supports up to eight WALKTEST groups.
- Install Mode can group multiple troubles for uninstalled modules and devices into a single trouble condition, typically with future phased expansion. With future equipment and devices grouped into a single trouble, operators can clearly identify events from the commissioned and occupied areas.

Touchscreen display with LED status indicators

The display is seismically compliant under the state of California statewide office of housing and development (OSHPD) special seismic certification (SSC) program guidelines. For details refer to the *Simplex Seismic Application Guide (579-1213)* and datasheet *Battery Brackets for Seismic Activity Applications (S2081-0019)*.

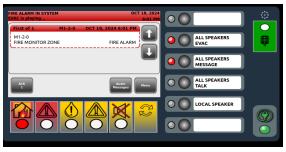
Figure 2: Touchscreen display with LED status indicators



Operator screens

The **Main Menu** screen enables quick navigation to the function required.

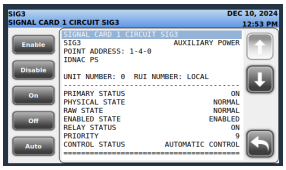
The **System Alarm** screen identifies active alarms with custom labels displayed. Use the arrows to navigate through the list.



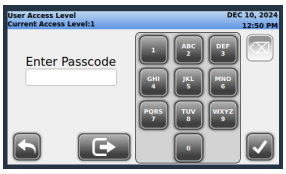
The **System Trouble** screen identifies active troubles with custom labels displayed. Use the arrows to navigate through the list.

In the **Trouble Log** screen, you can review past troubles with time stamps and point details shown.

With the **Point Information** screen, you can review point details. Use the arrows to navigate through the information.



The **User Access Login** screen controls access to panel operations as determined by the panel configuration.



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Mechanical details

- Lockable door with polycarbonate window.
- Latching front panel assembly swings forward for internal access.
- The box has smooth surfaces for locally cut conduit entrance holes exactly where required.
- Modules are power-limited except where noted in the installation documents, such as for relay modules.
- The battery compartment at the bottom has space for two batteries, up to 18 Ah. You can mount batteries within the cabinet with no interference to module space. The capacity of the charger is up to 33 Ah. For information about batteries greater than 18 Ah and external battery cabinets, see Module and accessories selection.
- The cabinet assembly design was seismic tested and is certified to IBC and CBC standards. The cabinet assemble is also compliant to ASCE 7 categories A through F. Battery brackets are required. For more information, refer to datasheet *Battery Brackets for Seismic Activity Applications (S2081-0019)*.

IDNet2 addressable device control

The 4017ES includes an IDNet2 addressable initiating device signaling line circuit (SLC) that supervises wiring connections and the individual device communications status on the SLC. With 2-wire IDNet2 SLCs, initiation, monitoring, and control devices can communicate their identity and status and receive fire alarm system control. These devices include manual fire alarm stations, TrueAlarm sensors, control relays, and sprinkler water flow switches. Additional addressable interface modules include circuit isolators, conventional IDC zone adapters, and interfaces to other system circuits such as fans, dampers, and elevator controls.

IDNet2 addressable device operation

Each addressable device on the IDNet2 communication channel is continuously interrogated for status condition such as: normal, off-normal, alarm, supervisory, or trouble. Class A and Class B operations are available. Sophisticated poll and response communication techniques ensure supervision integrity and enable T-tapping of the circuits for Class B operation. Devices with LEDs pulse the LED to indicate receipt of a communications poll. You can turn them on steady from the panel. With addressable devices, the location and status of the connected device is monitored, logged, and displayed on the operator interface LCD. For precise identification, each device has its own 40 character custom label.

IDNet2 addressable channel capacity

The 4017ES includes an isolated output IDNet2 SLC that supports up to 250 addressable monitor and control points intermixed on the same pair of wires. A total of 250 requires two 4007-9803 IDNet2 loop expansion modules.

Table 1: IDNet2 SLC wiring specifications

Specification		Rating
Maximum distance from control panel for each device load	0 to 125 devices	4,000 ft (1219 m), 50 Ω
	126 to 250 devices	2,500 ft (762 m), 35 Ω
Total wire length with T-taps for Class B wiring		Up to 12,500 ft (3.8 km), 0.60 µF
Maximum capacitance between IDNet2 channels		1 µF
Connections		Terminal blocks for 18 to 12 AWG
Wire type and connections	Shielded or unshielded, twisted or untwisted. **Note:** Some applications may require shielded wiring. Review your system with your local Simplex product supplier.	

Compatibility includes IDNet communication devices and TrueAlarm sensors that include QuickConnect and QuickConnect2 sensors. For additional information, refer to datasheet *Device Communications Compatibility Chart (S4090-0011).*

Table 2: Current draw for each IDNet device

Condition	Current
Standby	0.8 mA
Alarm, with LED off	1.0 mA
Alarm, with LED on	3.0 mA
Note: A maximum of 20 devices with LED on is supported for each channel. Additional device LEDs do not turn on.	

TrueAlarm addressable sensor operation

Addressable initiating device communications include operation of TrueAlarm smoke and temperature sensors. Smoke sensors transmit an output value based on their smoke chamber condition. The CPU maintains a current value, peak value, and an average value for each sensor. The comparison of the current sensor value to its average value determines the status. Tracking this average value as a continuously shifting reference point filters out environmental factors that cause shifts in sensitivity.

Figure 3: TrueAlarm Photo Sensor with base

Figure 4: TrueAlarm Photo-Heat Sensor in CO base

Programmable sensitivity

At the control panel, you can select each sensor's sensitivity for different levels of smoke obscuration, shown directly as a percentage, or for specific heat detection levels. To evaluate if the sensitivity should be revised, the peak value is stored in memory. You can read or download it as a report and compare to the alarm threshold directly in percent.

CO sensor bases

CO sensor bases combine an electrolytic CO sensor module with a TrueAlarm analog sensor to create a single multiple sensor assembly that uses one system address. You can enable and disable the CO sensor, and you can use it in LED/Switch modes and custom control. For more details, refer to datasheet *TrueAlarm CO Sensor Bases for Smoke, Heat, and Photo/Heat Sensors using IDNet Communications (S4098-0052)*.

TrueAlarm heat sensors

You can select TrueAlarm heat sensors for fixed temperature detection, with or without rate-of-rise detection. Utility temperature sensing is also available, typically to provide freeze warnings or alerts to HVAC system problems. For read temperature values, you can select as Fahrenheit or Celsius.

TrueSense early fire detection

The multi-sensor 4098-9754 provides photoelectric and heat sensor data through a single IDNet address. The panel evaluates smoke activity, heat activity, and their combination, to provide TrueSense early detection. For more information about this operation, refer to datasheet *TrueAlarm Multi-Sensor Model 4098-9754 Providing TrueSense Early Fire Detection (S4098-0024)*.

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Diagnostics and default device type

Sensor status

With TrueAlarm operation, the FACU can automatically indicate when a sensor is almost dirty, dirty, or excessively dirty. TrueAlarm operation maintains the sensitivity level of each sensor to fulfill the NFPA 72 requirement for a test of the sensitivity range of the sensors. CO sensors track their 10-year active life status and incorporate indicators to assist with service planning. Indicators occur at 1 year, 6 months, and end of life.

Modular TrueAlarm sensors

TrueAlarm sensors use the same base and different sensor types such as a smoke or heat sensor. You can interchange them to meet specific location requirements. This facilitates intentional sensor substitution for the duration of building construction when conditions are temporarily dusty. Instead of covering smoke sensors, which causes them to disable, you can install heat sensors without reprogramming the FACU. The FACU indicates an incorrect sensor type, but the heat sensor operates at a default sensitivity. It provides heat detection for building protection at that location.

System components

Power supply:

- RUI communication monitors and controls up to 47 remote devices at up to 2500 ft (762 m) for single run, or 10,000 ft (3048 m) total, if wiring is Class B and T- tapped. It includes 10 legacy, 5 remote audio, 1 Addressable NAC Extender, and 4 remote amplifiers. You can select Class A or Class B.
- Compatible RUI remote equipment includes the following:
  - 4606-9202 and 4606-9205 Color Touchscreen Annunciators, you can use a maximum of six for each system.
  - 4100 Series 24 I/O and LED/Switch modules.
  - 4009-9703 through 4009-9706 Addressable NAC Extenders, you can use a maximum of one for each system.
  - S4017-RAMP-NR, S4017-RAMP-NP Remote Amplifier Enclosures, you can use a maximum of two for each system.
  - SRAUD-SWR, SRAUD-SWP, SRAUD-SFR, SRAUD-SFP, SRAUD-DWR, SRAUD-DWP, SRAUD-DFR, and SRAUD-DFP, you can use a maximum of five for each system.
- IDNet2SLC output includes electrically isolated Class A or Class B communication. Standard capacity is up to 100 addressable points with expansion for up to 250 points when up to two 4007-9803 IDNet2 Loop Expansion Modules are used. See section IDNet2 addressable channel capacity.
- Total power supply rating is 6 A, this includes current for: special application notification appliances, IDNet devices, module currents, and auxiliary output current. Battery charging, CPU, and power supply current does not subtract from the 6 A. When NACs control regulated 24 DC appliances, the total NAC current available is 3 A.
- Each NAC circuit is rated 3 A for special application appliances. You can select SmartSync horn and strobe control, or strobe synchronization. Rated 2 A each for Regulated 24 DC appliances.
- For NAC EOL resistor values, you can select 10 kΩ, 3.9 kΩ, 4.7 kΩ, 5.1 kΩ, 5.6 kΩ, or 15 kΩ.
- You can select a 2 A auxiliary output (AUX/SNAC) either as a resettable auxiliary power of 2 A at 24 VDC, or as a simple NAC (SNAC) for the sounder base power, four-wire detector power, or as door holder power.
- Battery management includes the following capabilities:
  - The battery charger is dual rate, temperature compensated, and charges up to 18 Ah sealed lead-acid batteries mounted in the battery compartment. It can charge up to 33 Ah batteries mounted in an external cabinet.
  - Battery and charger monitoring includes battery charger status and low or depleted battery conditions. Status information sent to the master controller includes analog values for: battery voltage, charger voltage and current, actual system voltage and current, and NAC current.
  - Low Battery Voltage Cutout. You can select this when required, ULC Listing applications require it.

Audio controller interface:

- Supports pre-recorded messages or live audio
- Class A or Class X single channel Digital Audio Riser for up to six amplifiers in total
- Three audio inputs:
  - Input 1: Local handheld microphone or Line Level
  - Input 2: Remote Mic or Remote Riser cards
  - Input 3: Analog inputs (10 V, 25 V, and 70 V)
- Local speaker
- Embedded PC board microphone
- Record custom message through live input
- Can receive ES Net network audio
- 16 MB of RAM message memory

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Amplifier:

- 50 W, single channel
- Class A or Class B
- Includes one 25 V rms or 70 V rms speaker NAC, which you can select through software
- The speaker circuit does not support non-alarm audio constant supervision. Use a NAC Expander Module.

Table 3: Amplifier current draw

Item	Signal	Card
Maximum alarm current at low battery	3.55 A	0.055 A
24 VDC low power conservation	0.069 A	0.049 A

When you power an amplifier with the 4017ES you must subtract the available current based on the amount of audio power you use. If more power is required, add a Battery and Power Module (BPM).

Subtract all amplifier currents from the available power supply currents.

Table 4: Current specifications

Amplifier power	24 V total alarm current draw
10 W	0.98 A
20 W	1.30 A
30 W	1.75 A
40 W	2.34 A
50 W	3.06 A

NAC Expander Module

You require a NAC Expander Module if you add an Expansion Amplifier as a backup amplifier. It has the following features:

- Includes three Class A or Class B NACs, one speaker or one non-addressable NAC
- Supports non-alarm audio, constant supervision
- Uses speaker NAC from the amplifier for the audio input
- You can configure NAC 3 as a 2 A DC NAC or AUX Power
- You can program NACs individually
- You can connect it to two amplifiers to support jobs that require backup amplifiers

Battery and Power Module

If you add an Expansion Amplifier, to avoid the possibility of not enough power, you can add a Battery and Power Module. It has the following features:

- Supplies up to 100 W for amplifiers and 2.5 A total additional current.
- Includes 2 A unsupervised AUX Power.
- You can install the BPM in a FACU to supply additional power. By default, Remote Amplifiers include a BPM.
- You require a separate Battery Box if you add a BPM module in the FACU.

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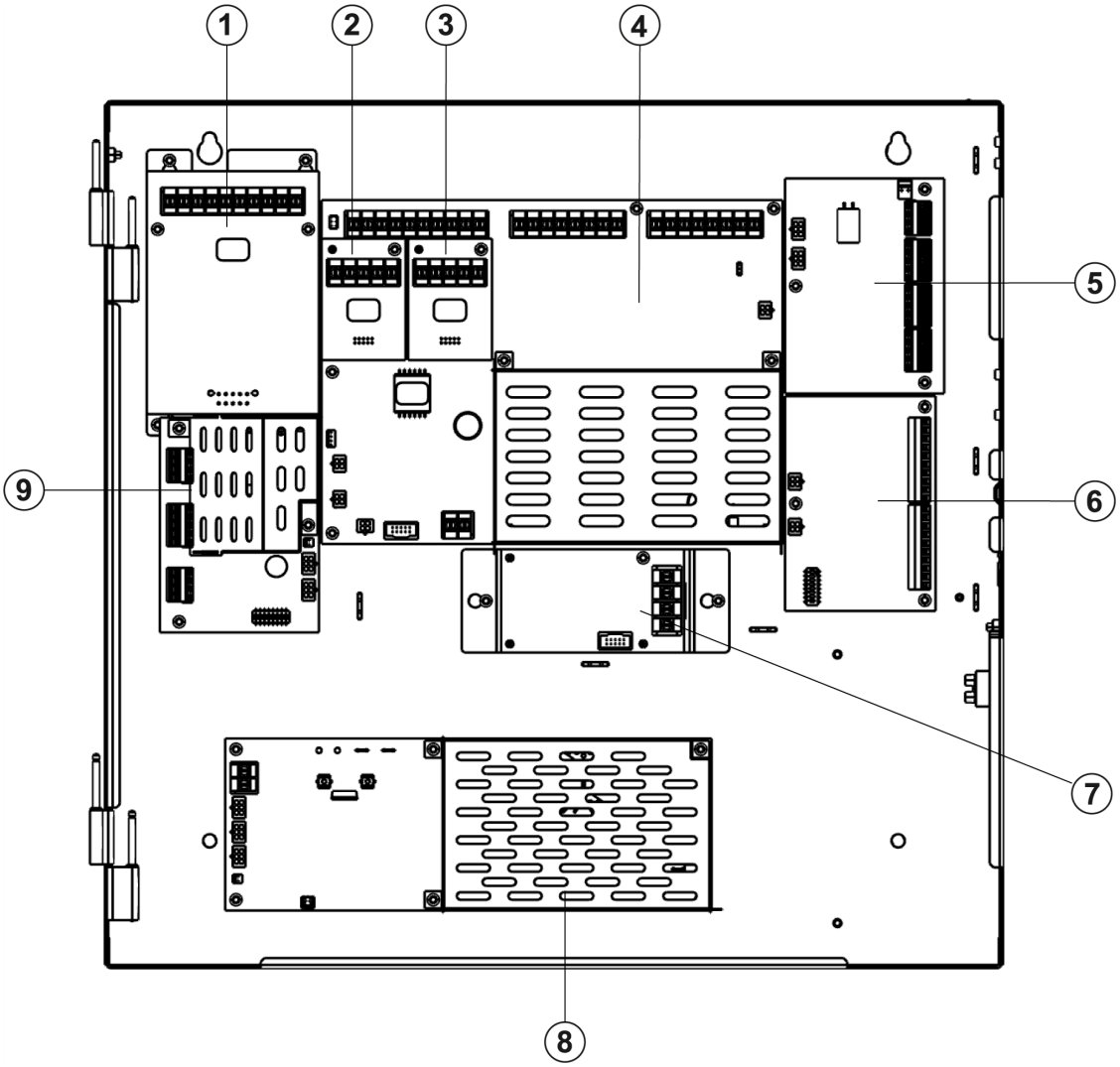
4017ES mounting and module locations

Figure 5: 4017ES mounting and module locations



Callout	Description
1	Amplifier or NAC Expander Module
2	IDNet+ Loop Expansion cards
3	IDNet+ Loop Expansion cards
4	Power supply
5	NAC Expander
6	Zone Relay Module
7	City Circuit Module
8	Battery Power Module (BPM)
9	Amplifier

Note: Provide a system ground for earth detection and transient protection devices. Make this connection to an approved, dedicated earth connection as referred to in NFPA 70, Article 250, and NFPA 780.

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Product selection

4017ES

Table 5: 4017ES product selection

Model	Color	Description	Supv. current	Alarm current	Dimensions with cover Width x Height x Depth
S4017-PNL-INR	Red	4017ES with four non-addressable NACs, a 6 A output power supply and battery charger and one IDNET2 SLC for up to 100 addressable points. Onboard audio controller interface. Single channel digital audio riser. Includes one 50 W amplifier.	395 mA	3408 mA	20 7/8 in. x 20 3/16 in. x 4 1/2 in. (530.2 mm x 512.8 mm x 114.3 mm)
S4017-PNL-INP	Platinum				

Module and accessories selection

Table 6: Factory programming options

Model	Description
4007-8810	Factory Programming (select)
4007-0831	Custom Labels and Programming, requires 4007-8810

Table 7: Field installed optional modules

Model	Description		Supv.	Alarm
4007-9801	Eight Point Zone/Relay Module. For each point, you can select as an IDC input or Relay output. Class A IDCs require two points, one out and one return. One module is included as standard. You can select up to three additional modules. Alarm current shown is for eight Class B IDCs that use 3.3 kΩ EOL resistors with four IDCs in alarm and four IDCs in standby. Supervisory current shown is for all eight IDCs in standby. Detector current is added separately. For more information refer to *Zone/Relay Module Installation Instructions (579-1103)*.		83 mA max	295 mA max
4007-9803	IDNet2 Loop Expansion Module. It includes an additional isolated loop with short circuit isolation for the existing IDNet2 channel, it also includes an additional 75 addressable points to the IDNet2 channel capacity, a maximum of two for each system.		NA	NA
4007-9820	Panel Mounted 32 LED Status Annunciator Module. It includes 32 red green yellow (RGY) LEDs that are programmable as required for custom annunciation requirements.	no LEDs on	17 mA	17 mA
		with LEDs on	3 mA for each LED, 113 mA max	
4007-9821	Panel Mounted 32/32LED/Switch Module. It includes 32 RGY LEDs and 32 switches that are programmable as required for custom annunciation/control requirements.	no LEDs on	17 mA	17 mA
		with LEDs on	3 mA for each LED, 113 mA max	
4007-9807	City Circuit Module with disconnect switch.		20 mA	36 mA
4007-9808	City Circuit Module without disconnect switch.		20 mA	36 mA
4007-9809	Relay Module. Relays for alarm, supervisory, and trouble. Rated 2 A resistive at 32 VDC.		15 mA	37 mA
4007-9812	Dual RS-232 Interface Module. Compatible with Simplex remote printer, PC annunciator, or third party interface, two ports or connections maximum.		60 mA	60 mA
S4017-AMP50W	50 W, one Channel Expansion Amplifier, 25 V or 70 V configurable, one Class A or Class B Speaker NAC Circuit (10 kΩ EOL only). Can communicate over internal panel communications or over RUI. Supports Class A or Class B DAR. Regenerates DAR at each amplifier to reduce jitter. Supervises the BPM and monitors for earth faults in Remote Amplifier cabinets.		118 mA	3060 mA
S4017-NACEXP	Splits one amplifier into 1-3 Class A or Class-B Speaker NACs with Constant Supervision. You can configure NAC 3 as a 2 A DC NAC that supports most NAC devices, this includes synchronized strobes or horns. Suppression Release Module excluded. You can use Input 2 to add a Backup Amplifier for jobs that require it.		63 mA	175 mA
S4017-PWRMOD	The BPM adds 100 W of audio +2.5 A of DC current to the FACU. Includes an unsupervised/uncontrolled 2 A Aux Power. 110 VAC to 240 VAC 50/60Hz Auto-ranging.		23 mA	23 mA
4017-HAR-BAMP	Backup Amplifier Harness. Combine S4017-AMP50W with one or two S4017-NACEXP to have backup amplifier support. Automatic fail-over in standby or alarm on failure of the primary amplifier.		NA	NA

Table 8: Field installed optional network modules

Model	Description	Supv.	Alarm
4007-2504	Connected Services Gateway with IP Communicator	125 mA	125 mA

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Network interface and network media card product selection

4017ES FACUs are compatible with Simplex ES Net network fire alarm products.

For additional information on compatible ES Net fire alarm products, refer to datasheet *ES Net Network Applications, Communications, Options and Specifications (S4100-0076)*.

Table 9: Battery enclosures

Model	Color	Capacity	Dimensions H x W x D	Description
BATBOX-33XR	Red	Supports up to 33 Ah batteries	10 7/8 in. x 21 1/4 in. x 5 7/8 in. (276.2 mm x 539.8 mm x 149.2 mm)	External Battery Enclosure without charger to mount close-nippled (20 ft maximum) to FACP.
BATBOX-33XP	Platinum			

Note: To facilitate 33 Ah capacity, use 2081-9276 square 33 Ah batteries.

Table 10: Accessories

Model	Description
2080-9047	DACT cable, 14 ft (4.3 m) long, RJ45 plug on one end, spade lugs on the other. Order one for each required phone line connection.
2975-9812	Red semi-flush box trim. 1 7/16 in. (37 mm) wide, four corners and trim pieces for top, bottom, and sides
2975-9813	Platinum color semi-flush box trim. 1 7/16 in. (37 mm) wide, four corners and trim pieces for top, bottom, and sides
2081-9031	Series resistor for WSO, non-addressable IDCs. N.O. water flow and tamper on same circuit, wires after water flow and before tamper. 470 Ω, 1 W, encapsulated. Two 18 AWG leads (0.82 mm^2), 2 1/2 in. x 1 3/8 in. x 1 in. (64 mm x 35 mm x 25 mm) L x W x H
4081-9002	3.3 kΩ, 1 W EOL resistor for Class B non-addressable initiating zones
4081-9018	10 kΩ, 1 W EOL resistor harness for non-addressable NACs

Table 11: Batteries

Model	Capacity	Battery mounting details
2081-9286	7 Ah	12 V batteries for cabinet mounting. Select one battery model for each system's standby requirements. Order a quantity of two. Wire in series for 24 VDC.
2081-9274	10 Ah	
2081-9288	12.7 Ah	
2081-9275	18 Ah	
2081-9287	25 Ah	Requires a BATBOX external battery cabinet. See Table 9.
2081-9276	33 Ah	

General specifications

Table 12: General specifications

Specification		Rating	
Input power	120 VAC input	2 A maximum at 102 VAC to 132 VAC, 50/60 Hz	
	240 VAC input	1 A maximum at 204 VAC to 264 VAC, 50/60 Hz	
4017ES power supply output ratings	Power supply output rating	Including module currents and auxiliary power outputs. 6 A total	Output switches to battery backup for the duration of mains AC failure or brownout conditions.
	NAC ratings	3 A each for special application appliances	
		2 A each for regulated 24 DC appliances	
	Auxiliary power tap	2 A maximum, 24 VDC nominal (19.5 VDC to 31.1 VDC)	
Special application non-addressable appliances		Simplex horns, strobes, and combination horn/strobes and speaker/strobes. Contact your Simplex product representative for compatible appliances.	
Regulated 24 DC non-addressable appliances		Power for other UL listed appliances. Use associated external synchronization modules where required.	
Battery charger ratings, sealed lead-acid batteries	Battery capacity range	UL listed for battery charging of 6.2 Ah up to 33 Ah. Batteries larger than 18 Ah require a remote battery cabinet.	
	Charger characteristics and performance	Temperature compensated, recharges depleted batteries in less than 48 hours as stated in UL Standard 864.	

Table 13: Custom background and environmental details

Item		Description
Custom background display details		Supported file types: JPG, BMP, GIF, and PNG Recommended image type is JPG, recommended image size is 480 pixels x 240 pixels, and the file size limit is 100 KB
Environmental	Operating temperature	32°F to 120°F (0°C to 49°C)
	Operating humidity	Up to 93% RH, non-condensing at 90°F (32°C) maximum

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Remote enclosures and options

Remote Amplifier

- Includes an enclosure with a BPM module and 50 W amplifier
- Three additional block spaces are available for compatible modules or cards
- Available in red or platinum color
- Semi-flush or surface mounted
- Maximum of two enclosures in a system

Table 14: Remote Amplifier

Model	Color	Description	Supv. current	Alarm current	Dimensions with cover Width x Height x Depth
S4017-RAMP-NR	Red	Remote Amplifier Enclosure. Supports up to four 3.5 in. x 5 in. cards and one BPM. BPM and one 50 W amplifier included. A maximum of two for each amplifier for each enclosure.	326 mA	3268 mA	19 7/16 in. x 18 15/16 in. x 4 1/2 in. (493.7 mm x 481 mm x 114.3 mm)
S4017-RAMP-NP	Platinum				
S4017-AMP50W	NA	50 W, single channel amplifier module	118 mA	3060 mA	
S4017-NACEXP	NA	NAC Expander Module	63 mA	175 mA	

Remote Microphone with LEDs switches

- Provides an enclosure with the following features:
  - 64/64 controller
  - Two 16 LED or 16 Switch modules
  - Handheld Microphone with PTT
  - Indicators for **Command Center Active** and **Ready to Talk**
  - Remote Touchscreen Annunciator
- Available in red or platinum
- Available as flush or surface-mount

Table 15: Remote Microphone with LEDs and Switches

Model	Color	Description	Supv. current	Alarm current	Dimensions Width x Height x Depth
SRAUD-SWR	Red	Surface-mount Remote Handheld Microphone Enclosure with LEDs and switches	37 mA	133 mA	Surface mount with cover 13 1/16 in. x 12 13/16 in. x 3 1/8 in. (331.8 mm x 325.4 mm x 79.4 mm)
SRAUD-SWP	Platinum				
SRAUD-SFR	Red	Flush-mount Remote Handheld Microphone Enclosure with LEDs and switches	37 mA	133 mA	Flush mount 14 13/16 in. x 14 1/2 in. x 3 1/8 in. (376.2 mm x 368.3 mm x 79.4 mm)
SRAUD-SFP	Platinum				

Remote Microphone with LEDs Switches Annunciator Display

- Provides an enclosure with the following features:
  - 64/64 controller
  - Two 16 LED or 16 Switch modules
  - Handheld Microphone with PTT
  - Indicators for **Command Center Active** and **Ready to Talk**
  - Remote Touchscreen Annunciator
- Available in red or platinum
- Available as flush-mount or surface-mount

Table 16: Remote Microphone with LEDs and Switches – Annunciator Display

Model	Color	Description	Supv.	Alarm	Dimensions Width x Height x Depth
SRAUD-DWR	Red	Surface mount Remote Handheld Microphone Enclosure with LEDs Switches and a Touch Screen Display	107 mA	203 mA	Surface mount with cover 14 9/16 in x 18 5/16 in. x 3 9/16 in. (369.9 mm x 465.1 mm x 90.5 mm)
SRAUD-DWP	Platinum				
SRAUD-DFR	Red	Flush mount Remote Handheld Microphone Enclosure with LEDs Switches and a Touch Screen Display	107 mA	203 mA	Flush mount 16 1/4 in. x 20 in. x 3 9/16 in. (412.8 mm x 508 mm x 90.5 mm)
SRAUD-DFP	Platinum				

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Main Handheld Microphone:

- Includes an enclosure with a handheld microphone with PTT
- Available in red or platinum
- Available as flush-mount or surface-mount

Table 17: Main Handheld Microphone

Model	Color	Description	Supv. current	Alarm current
XMIC-XWR	Red	Surface-mount Main Handheld Microphone Enclosure. Includes Microphone and PTT button. You must close nipple it to the FACP, less than two feet.	NA mA	NA mA
XMIC-XWP	Platinum			
XMIC-XFR	Red	Flush-mount Main Handheld Microphone Enclosure. Includes Microphone and PTT button. You must close nipple it to the FACP, less than two feet.	NA mA	NA mA
XMIC-XFP	Platinum			

Additional 4007ES and network product reference datasheets

Table 18: Additional 4017ES and network product reference datasheets

Title	Document number
Serial DACT (SDACT) for 4100ES,4010ES, 4007ES	S2080-0009
Connected Services Gateway - Central Station Communication and SafeLINC Cloud Services	S2080-0091
Seismic Battery Brackets Reference	S2081-0019
4017ES Panels with Addressable Notification	S4017-WIDNAC
4007ES Extinguishing Release Applications	S4007-0003
4009 IDNet NAC Extender	S4009-0002
4009 IDNAC Repeater	S4009-0004
Graphic I/O modules for 4100ES,4010ES, 4007ES	S4100-0005
Interface to VESDA Air Aspiration Detection Systems	S4100-0026
Info Alarm Command Center with SPS Power Supplies	S4100-0045
BACpac Ethernet Module	S4100-0051
Building Network Interface Card (BNIC)	S4100-0061
ES Net Network Products and Specifications	S4100-0076
NDU with SPS Power Supplies for ES Net	S4100-0077
Info Alarm Command Center with EPS Power Supplies	S4100-0101
NDU with EPS Power Supplies for ES Net	S4100-0104
PC Annunciator	S4190-0013
TrueSite Workstation	S4190-0016
TrueSite Incident Commander	S4190-0020
24-Pin Dot Matrix Fire Alarm System Remote Printer	S4190-0027
SCU/RCU Annunciators	S4602-0001
4606 Series Color Touchscreen LCD Annunciators	S4606-0003

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