Simplex

UL, ULC, and CSFM Listed

LifeAlarm Fire Alarm Controls

4009 IDNAC Extender

Introduction

Simplex fire alarm control units (FACU) with IDNAC signaling line circuit (SLC) outputs provide individual address capability and control of TrueAlert and TrueAlert ES addressable notification appliances. You can use a 4009 IDNAC Extender unit to expand the number of IDNAC SLCs for remote locations throughout a building.

With IDNAC SLCs, a constant 29 VDC source voltage is maintained in alarm, even during battery standby. This enables strobes to operate at higher voltage with lower current. This ensures a consistent current-draw and voltage-drop margin under both primary power and secondary battery standby.

You can save on installation and maintenance with efficiencies such as:

- Longer wiring distances
- More appliance support
- Use of smaller gauge wiring

These features also guarantee that appliances that operate during normal system testing also operate during worst-case alarm conditions.

The 4009 IDNAC Extender communicates over a remote unit interface (RUI) in compatible 4007ES and 4100ES control panels.

Figure 1: 4009 IDNAC Extender



Features

The 4009 IDNAC Extender provides enhanced power delivery to TrueAlert and TrueAlert ES addressable notification appliances that are controlled by IDNAC SLCs. It also provides the following features:

- Regulates alarm output voltage at 29 VDC to maintain voltage. For AC power and batteries, this means that appliances can operate at a lower current.
- Wiring distances of up to three times more than conventional notification, increased appliance loading, and smaller wire gauge wiring options.
- Charges batteries up to 12.7 Ah internally, or batteries up to 33 Ah in an external cabinet.
- Monitors battery, input power, and earth faults statuses.
- Programmable aux relay output (SPDT), normally open and normally closed contact.
- Auxiliary power/simple NAC output.
- Compatible 4007ES and 4100ES control panels using RUI communication.
- 4 A of total power. Up to 3 A for a single IDNAC SLC output
- UL listed to Standard 864.

This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7300-0026:0520 for allowable values and/or conditions concerning material presented in this document. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products

Product selection

Table 1: 4009 IDNAC Extender selection

Model	Cabinet color	Description
4009-9705	Red	4009 IDNAC Extender with cabinet. The unit includes one 3 A IDNAC SLC, up to 2 A auxiliary power/simple NAC, and a battery charger. 120 VAC or 240 VAC, 50 Hz or 60 Hz input, auto-select.
4009-9706	Platinum	
Note: Compatible 4007ES control panels support a maximum of one 4009 IDNAC Extender units. Compatible 4100ES control panels support a maximum of 31 4009 IDNAC Extender units. Compatible 4017ES control panels support a maximum of one 4009 IDNAC Extender units.		

Table 2: Battery selection

Model	Description	Notes
2081-9272	6.2 Ah battery, 12 VDC	Two batteries required, 24 VDC operation. Supported mounting within 4009 IDNAC Extender cabinet.
2081-9274	10 Ah battery. 12 VDC	
2081-9288	12.7 Ah battery, 12 VDC	
2081-9275	18 Ah battery, 12 VDC	Two batteries required, 24 VDC operation. External battery cabinet without charger required. Refer to datasheet *S2081-0006* for battery and battery cabinet references
2081-9287	25 Ah battery, 12 VDC	
2081-9271	33 Ah battery, rectangular, 12 VDC	
2081-9276	33 Ah battery, square, 12 VDC	

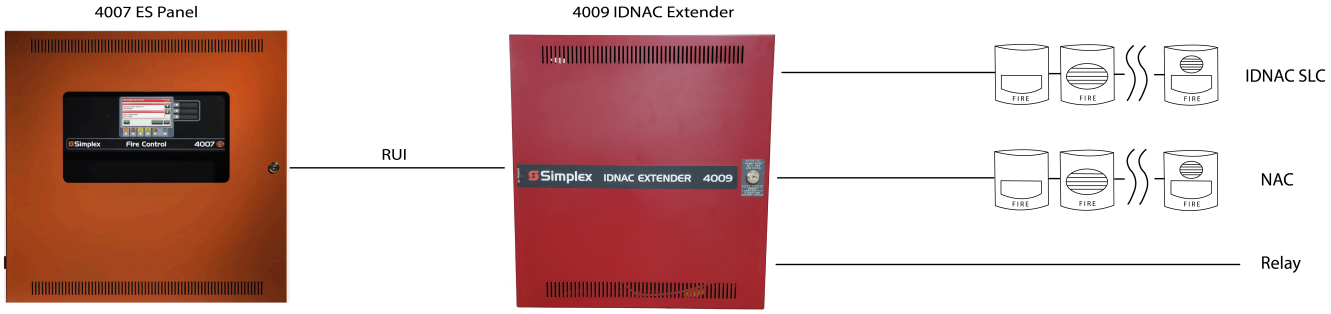
Technical specifications

Table 3: 4009 IDNAC Extender specifications and ratings

Item	Rating	
Operating temperature and humidity	32°F to 120°F (0°C to 49°C) Up to 93% relative humidity at 90°F (32°C), non-condensing	
AC input	120 V (50 Hz or 60 Hz): 2 A	240 V (50 Hz or 60 Hz): 1 A
DC output	19.5 VDC to 29.5 VDC 4 A total from all outputs in alarm. Combined appliance and auxiliary output currents should not exceed 4 A. The battery charger current does not count against total standby current	
	SLC current	3 A
	Card power	164 mA
	AUX power / Simple NAC	2 A special applications Aux or SNAC, programmable
Internal battery charger	Charges up to 33 Ah sealed lead acid batteries (UL-864 and ULC-S527) Charging voltage: 27.4 V typical, 28.6 V peak, dual-rate, temperature compensated Charging current: 1.4 A	
AUX relay	Form C dry contacts, 2 A at 32 VDC and 30 VAC, resistive load	
Battery standby current	64 mA standby, 64 mA alarm at 24 VDC	
Capacitive load	10,000 uF total across all Aux power points	
Note: The battery charger circuit was UL/ULC tested for a 24 hour standby time followed by a 2 hour alarm time.		

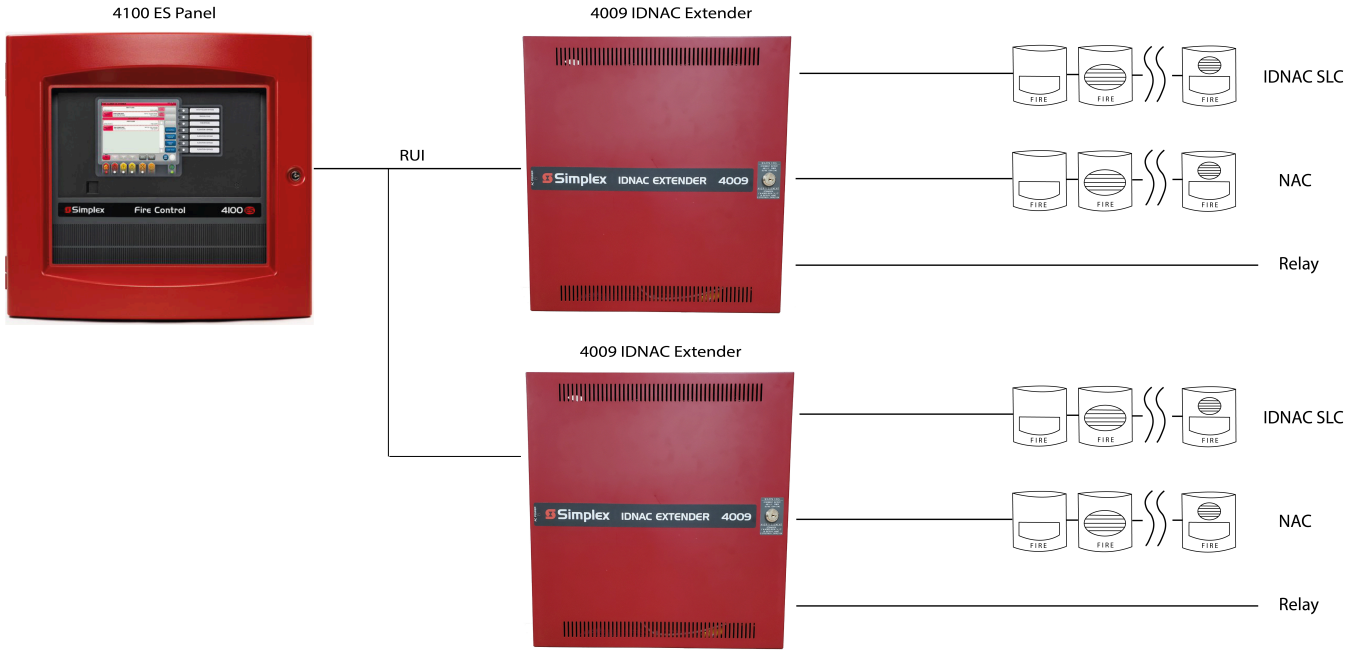
Typical connections with RUI communications

Figure 2: 4007ES and 4009 IDNAC Extender connection example



Note: You can only connect one 4009 IDNAC Extender to a 4007ES control panel.

Figure 3: 4100ES and 4009 IDNAC Extender connection example



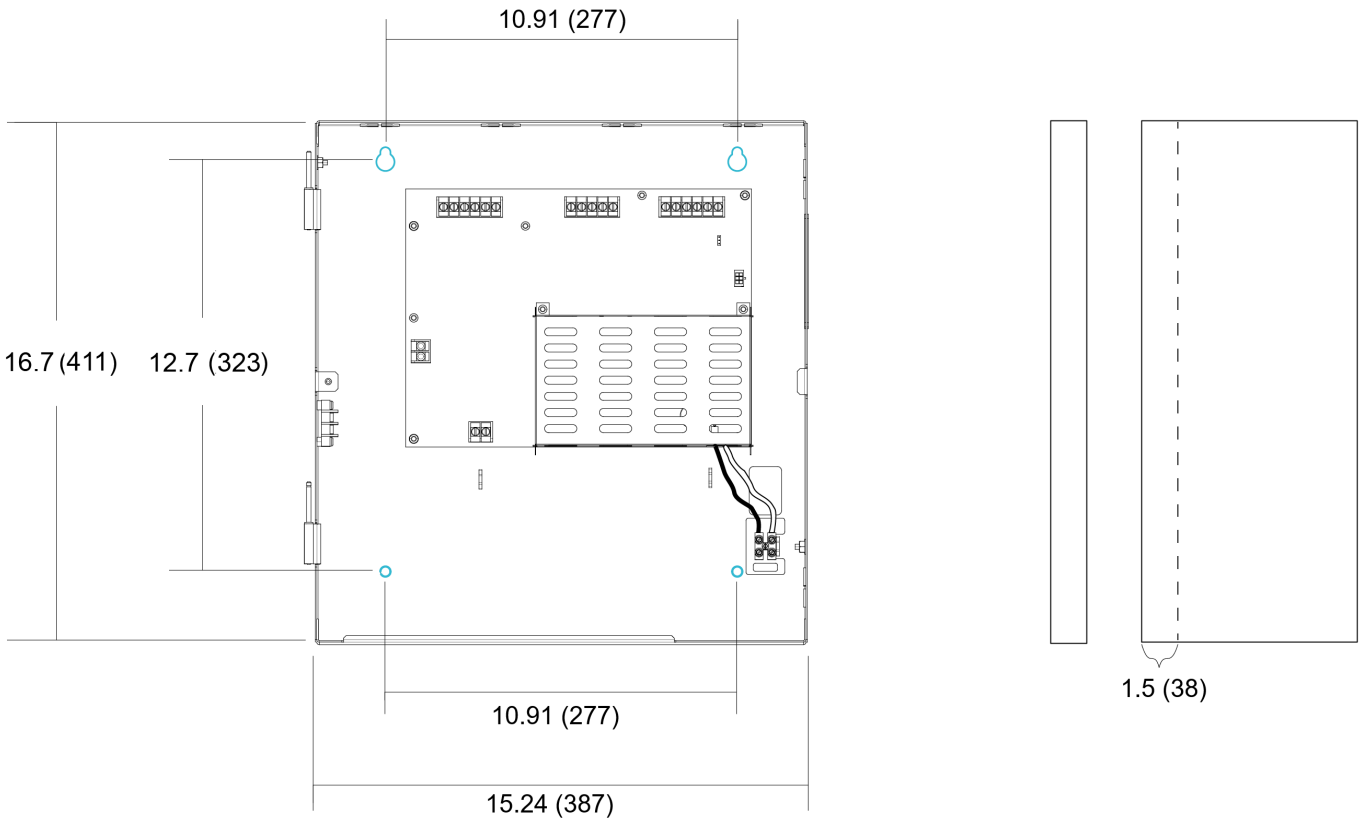
Note: You can connect up to 31 4009 IDNAC Extender panels to a 4100ES control panel.

IDNAC Extender installation requirements

You can semi-flush or surface mount the IDNAC Extender:

- The panel attachment requires four 1 1/2 in. (38 mm) lag bolts and four 1/2 in. (13 mm) diameter washers. Bolts and washers are not included with the unit..
- For semi-flush mounting, the front surface of the back box must protrude at least 1 1/2 in. or 38 mm from the wall surface.
- Refer to *4009 IDNAC Extender Installation Instructions (579-1444)* for detailed installation and mounting instructions.

Figure 4: Back Box installation dimensions and semi-flush mounting in. (mm)



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