

FireForce 9

NAC Expander/Power Supply



Description

The FireForce 9 (FF9) from Gamewell is a Notification Appliance Circuit (NAC) extender panel designed to extend the power capabilities of existing NACs and provide power (3.0 A maximum) for other ancillary devices. The FF9 will connect to any brand of UL-Listed Fire Alarm Control Panel (FACP) to provide Notification Appliance Circuit expansion.

Designed with advanced switch-mode power-supply technology, the FireForce 9 provides filtered and electronically-regulated power

distributed to four NACs. Each NAC is rated at 3.0 Amp maximum, with a total output capacity of 9.0 Amp. The outputs may be configured as: four Class B (Style W, X, Y); or two Class A (Style Z); or two Class B and one Class A. The FF9 includes an internal battery charger.

Gamewell's FF9 provides independent output circuit supervision. In the event of a NAC fault, the FF9 can be configured to notify the FACP. The FF9 has field-selectable, built-in strobe and horn sync protocols. Protocols support Faraday, Gentex, System Sensor, and Cooper-Wheelock devices; or pass through a pre-generated sync protocol from a single synchronization source. This eliminates the need for additional individual sync modules. Independent horn silencing via sync protocol allows synchronized horns and strobes to operate on a single circuit.

Engineer's Specifications

The Fire Alarm System shall be designed with remotely located Notification Appliance Circuit (NAC) Expander/Power Supplies for the support of notification appliances. The remote Power Supplies shall be fully supervised and shall provide 9.0 Amps of notification appliance power and auxiliary power output. The NAC Extender Panel shall be able to select strobe synchronization protocol via an internal dip switch. There shall be five selectable protocols available. The NAC Extender Panel shall synchronize all outputs simultaneously. The internal battery charging circuit shall charge up to 33 AH batteries. The NAC Expander/Power Supply shall be a Gamewell FireForce 9.

Features

- Provides two fully-supervised input/control circuits (9 – 32 VDC).
- Multiple sync protocols, compatible with the following appliances: Cooper-Wheelock, Faraday, System Sensor, and Gentex — as field-selectable options.
- Four configurable supervised NAC outputs.
- 9.0 Amp, 24 VDC, fully regulated full-load output (power-limited).
- Output fault notification to FACP.
- Contains auxiliary power output.
- Trouble and status LEDs.
- Common trouble Form-C relay.
- Isolated AC Fail Form-C relay, immediate or delayed.
- Ground fault detection.
- 33 AH battery charger capability.
- Selectable temporal coding.
- Facilitates multiple NAC synchronization for large areas.

Field-Selectable NAC Signaling	
INPUT	OUTPUT (follows input)
Steady	Temporal
Steady	Steady – Sync
Steady	Steady with noise eliminated
Sync	Sync

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Listings

Listings and approvals below apply to the basic FireForce 9 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 Listed: file S521.
- MEA approved: file 429-92-E, Vol. XVI.

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Ordering Information

FF9	24 VDC, 9.0 Amp, fire alarm NAC expander/power supply with integral battery charger.
BAT-1270	Battery, 12 VDC, 7 AH (two required for 24 V operation).
BAT-12120	Battery, 12 VDC, 12 AH (two required for 24 V operation).
BAT-12180	Battery, 12 VDC, 18 AH (two required for 24 V operation).
BAT-12260	Battery, 12 VDC, 26 AH (two required for 24 V operation).

Specifications

Primary input power

120 VAC, 60 Hz, 3.0 A; or 220 V, 1.5 A; jumper selectable.

Secondary power

24-volt operation: two 7 – 33 AH batteries.

Battery charging capacity

Up to 33 AH batteries.

Battery space

Up to two 7 AH batteries maximum inside FF9 cabinet. Larger batteries require a separate battery cabinet.

Total output power

9.0 A maximum.

Standby current

75 mA.

Auxiliary power output

3.0 A maximum.

NAC output ratings

24 VDC fully regulated, 3.0 A maximum per circuit (9.0 A total).

End-of-Line resistor

4.7 K ohm.

Common trouble relay

2.0 A/28 VDC or 120 VAC.

Input control circuit

9 – 32 VDC @ 5 mA minimum.

Temperature rating

32°F to 120°F (0°C to 49°C).

Relative humidity

85% maximum, noncondensing.

Dimensions

FF9 Cabinet: 16.0" H x 12.25" W x 3.0" D
(cm: 40.64 H x 30.88 W x 7.62 D).



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