



Kingfisher Company, inc.

NAC10A



MEA  
Approved



## Features:

- 2 Class A or B NAC or Dry Contact Inputs
- 4 Class B or 4 Class A Outputs
- Power Limited, Filtered and Regulated Power Supply
- Built-in Charging Circuit
- Input, Output and Trouble LEDs
- NAC Circuit Trouble Memory
- Common Trouble Input and Output
- Multiple Lock Configurations  
Available - Standard is 211  
Optional is CAT 30 or PK 625
- Thermal and Short Circuit protection
- 18"H x 14.5"W x 4.5"D Red Cabinet
- 2 Aux. Outputs 1 Amp each
- UL Listed Control Units and Accessories for Fire Alarm Systems (UL864)
- Compatible with King-Fisher KFX2003 R/T and KFRTI 20-52 Transmitter control panels



## Description:

NAC/10A is a cost effective 10 Amp Power Limited Voltage Regulated remote Notification Appliance Control (NAC) expander unit. It may be connected to any UL Listed 12 or 24 Volt DC Fire Alarm Control Panel.

The NAC/10A supports all ADA requirements and will provide power to ancillary equipment with two Aux outputs (one automatically battery backed-up and one not). Each Aux. Output is rated for 1 Amp. The unit comes with either four Notification Appliance Circuits Class B (Style Y) or four Notification Appliance Circuits Class A (Style Z). All circuits are rated for a maximum of 2.5 Amps each (not to exceed 10 Amps per supply).

The NAC outputs can be independently programmed for Steady, Temporal or Strobe Synchronization. The outputs may also be programmed as "follower circuits" that will code following their inputs (eg: Sync in = Sync out).

Any two NAC Circuits may be paralleled to supply a single output of 4 Amps. Trouble is reported either through a set of common Trouble Dry Contacts or through the Input 1 or Input 2 terminations. Inputs can be programmed to trip any combination of up to 4 outputs.

The unit features a "Loop Output" trouble memory for aid in troubleshooting problem field circuits. Charges up to 65 Amp Hour Batteries with a programmable AC Fail delay.

Ideal for upgrading KFRTI-20/52 transmitters to ADA compliant synchronizing strobes and horn/strobes.

## Specifications:

### INPUT:

- Power input 120 VAC / 60 Hz, 5 amp
- Two (2) Class A, Style Z or two (2) Class B, Style W, Y FACP inputs.
- Two (2) NC dry contact trigger inputs.

### OUTPUT:

- Class 2 Rated power limited outputs.
- 24VDC voltage regulated power limited outputs.
- 10 amp max total alarm current.
- 2.5A max current per output.
- Two auxiliary outputs rate at 1 amp each (1 amp continuous, 1 amp AC disconnect). AUX 1 is not battery backed up.
- Programmable supervised indicating circuit outputs:  
Four (4) Class B, Style W, Y or Four (4) Class A Style Z, or Two (2) Class A, Style Z and Two (2) Class B, Style W, Y.
- Thermal and short Circuit protection with auto reset.

### BATTERY BACKUP:

- Built in charger for all King-Fisher Company, inc. Batteries
- Automatic switchover to stand-by battery when AC fails. AUX 1 does not transfer to battery backup on AC fail.
- Zero voltage drop when switching over to a battery backup.

### SUPERVISION:

- AC Fail supervision (form "C" contact, 1 amp / 28 VDC) Factory set for 30 seconds with optional 2.5 to 3 hour delay setting, field selectable)
- Instant local AC trouble reporting relay (form "C" contact, 1 amp / 28 VDC)
- Battery Presence and low battery supervision (form "C" contact, 1 amp / 28 VDC)

### VISUAL INDICATORS:

- Input and output status LED indicators

### WEIGHT:

- 14.5 lbs

### DIMENSIONS:

- 18"h X 14.5"W X 4.625"D

### TEMPERATURE:

- Operating: 0°C to 49°C (32°F to 120°F)
- Storage: -20°C to 70°C (4°F to 158°F)
- Humidity: 85% +/- 5%

## Approvals / Listing:

- UL listed for Control Units and Accessories for Fire Alarm Systems (UL864)
- CSFM - California State Fire Marshal Approved
- MEA - NYC Department of Buildings Approved
- FM Approved

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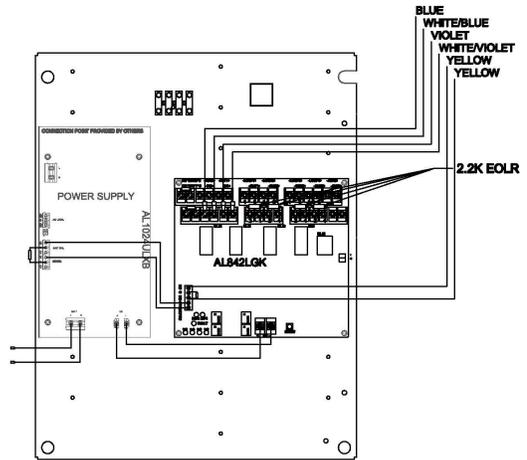
## Retrofitting the DAN Module:

The IRAC-NAC10 Subplate is an effective method of updating the IRAC or KFRTI 20-52 DAN module power supplies. The DAN module has been discontinued. The IRAC or KFRTI 52 enclosure must have enough space to accept a second subplate. The NAC10 subplate is fully supervised.



## Discontinued Dan Module:

KF PN 66810



INSTALL #51189 WIRE HARNESS (CABLE TIES NOT SHOWN)

USE WIRE TIE HOLDER #27102 AND TERMINAL STRIP #22348 AS NEEDED

ATTACH BLUE TO IN1-  
 ATTACH WHITE/BLUE TO IN+  
 ATTACH VIOLET TO IN2-  
 ATTACH WHITE/VIOLET TO IN2+  
 ATTACH ONE YELLOW WIRE TO NC  
 ATTACH ONE YELLOW WIRE TO NO

INSTALL 2.2K RESISTORS ON OUT 1, OUT 2, OUT 3, & OUT 4

## New IRAC-NAC10 Subplate:

KF PN 91199



## Retrofitting the DAN Module or adding a NAC10:

IRAC or KFRTI-52 enclosures that do not have enough space can still be updated by installing a NAC10 in a separate enclosure. The wiring between the NAC10 and IRAC or KFRTI 20-52 is the same whether using the subplate or the stand alone NAC10 in its' own enclosure. The NAC10 is fully supervised.

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## ORDERING INFORMATION

KCi #	Model #	Description
81199	NAC10A	Notification Appliance Circuit Panel—(PK625Cat 30 Key)
81197	NAC10A	Notification Appliance Circuit Panel—(211 Key)
99962	NAC10-211-12A	Notification Appliance Circuit Panel with (2) 12V, 12Ah Batteries—(211 Key)
99963	NAC10-30-12A	Notification Appliance Circuit Panel with (2) 12V, 12Ah Batteries—(PK625/Cat30 Key)
99964	NAC10-211-7A	Notification Appliance Circuit Panel with (2) 12V, 7Ah Batteries—(211 Key)
99965	NAC10-30-7A	Notification Appliance Circuit Panel with (2) 12V, 7Ah Batteries—(PK625/Cat30 Key)
91199	IRAC-NAC10	Notification Appliance Circuit Panel built on subplate that mounts inside the IRAC or KFRTI-52 enclosure.
66197	NAC10-PS	NAC10A power supply replacement board
66198	NAC10-CB	NAC10A control board– 4 circuit-replacement board
81199-FIG		Instructional drawing showing how to connect an IRAC or KFRTI20-52 to a stand alone NAC10.
81197-DTS		Data Specification Sheet

Kingfisher Company, inc., products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Kingfisher Company, inc., standard terms and conditions

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