

June 2004

## DFDAP-M / FDAP-M Remote Alarm Panel



## Product Description

Eaton's Cutler-Hammer Remote Alarm Panels are designed to provide audible and visual alarms for Electric and Diesel Fire Pump Controllers.

These remote panels are located at a point of constant attendance when the pump room is not constantly supervised.

## Product Features

## Microprocessor Control

All DFDAP-M and FDAP-M Remote Alarm Panels are microprocessor based. The same microprocessor board is used for both Electric and Diesel units. Indicating lamps will correspond appropriately. (Refer to the Standard Alarm Indication information on this page.)

## Multiple Power Supply Voltages

Both Supervisory (supplied by customer) and Backup (from the fire pump controller) supply voltages can be supplied from 110 to 240 Volt, 50-60 HZ.

## Supervisory - Backup Power Source

If the Supervisory power source is not available, the controller will automatically switch to the Backup source. When supervisory power is restored, the controller will switch back to the supervisory source.

## Technical Data and Specifications

## Line Terminals (Incoming Cables)

Recommended Wire Size	Distance Number of feet (meters) from the controller to the remote alarm panel.
Stranded # 16	3000 (914.4)
Stranded # 14	4500 (1371.6)
Stranded # 12	7000 (2133.6)

## Lamp Test Button

The lamp test button will simultaneously test all lights, as well as the audible alarm buzzer.

## Audible Alarm

The 24VDC audible alarm will sound when any alarm condition occurs. It will continue to sound until either the silence pushbutton is pressed, or the alarm condition is satisfied.

## Audible Alarm "Silence" Pushbutton

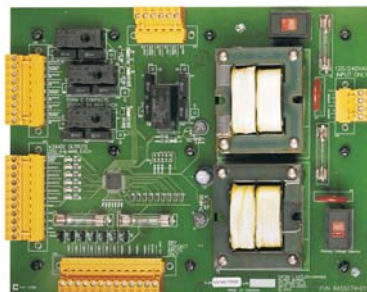
The Silence pushbutton will silence all active alarms when pressed, but has no effect on the associated alarm light(s). If another alarm condition occurs after the silence button has been pressed, the alarm buzzer will re-sound until the button is pressed again, or the alarm condition is satisfied.

## User Selectable Alarm Inputs

Each alarm input (7 total) is user selectable as either normally open or normally closed by use of jumpers on the microprocessor board.

## Alarm Outputs

Each controller is equipped with seven output relays. Four are used for alarm lights while the remaining three are tied directly to the corresponding alarm inputs.



## "Supervisory Power Normal" Indication

The supervisory power normal light will turn ON when the Supervisory power is available and will turn OFF when the controller switches to the backup power source.

The alarm buzzer will sound when the supervisory power is not available and will remain ON until the supervisory power is restored, or the Silence Pushbutton is pressed.

## NEMA 1 Enclosures

All remote alarm panels come standard with NEMA 1 enclosures.

## Standard Alarm Indication



## Electric

- Supervisory Power Normal
- Pump Operating
- Phase Reversal
- Phase Failure
- Common Alarm

## Diesel

- Supervisory Power Normal
- Engine Running
- Engine Trouble
- Pump Room Trouble
- Controller in OFF Mode

## Common Alarm Relay

A common alarm relay will energize under any alarm condition. Two Form-C output contacts are provided.

## Output Relays

Output relays are PCB style - rated for 8A/250VAC.



## Standards &amp; Certification

The DFDAP-M / FDAP-M Remote Alarm Panels meet or exceed the requirements of Underwriters Laboratories, Underwriters Laboratories Canada, the Canadian Standards Association, the New York City building code, and are built to NFPA 20 standards.



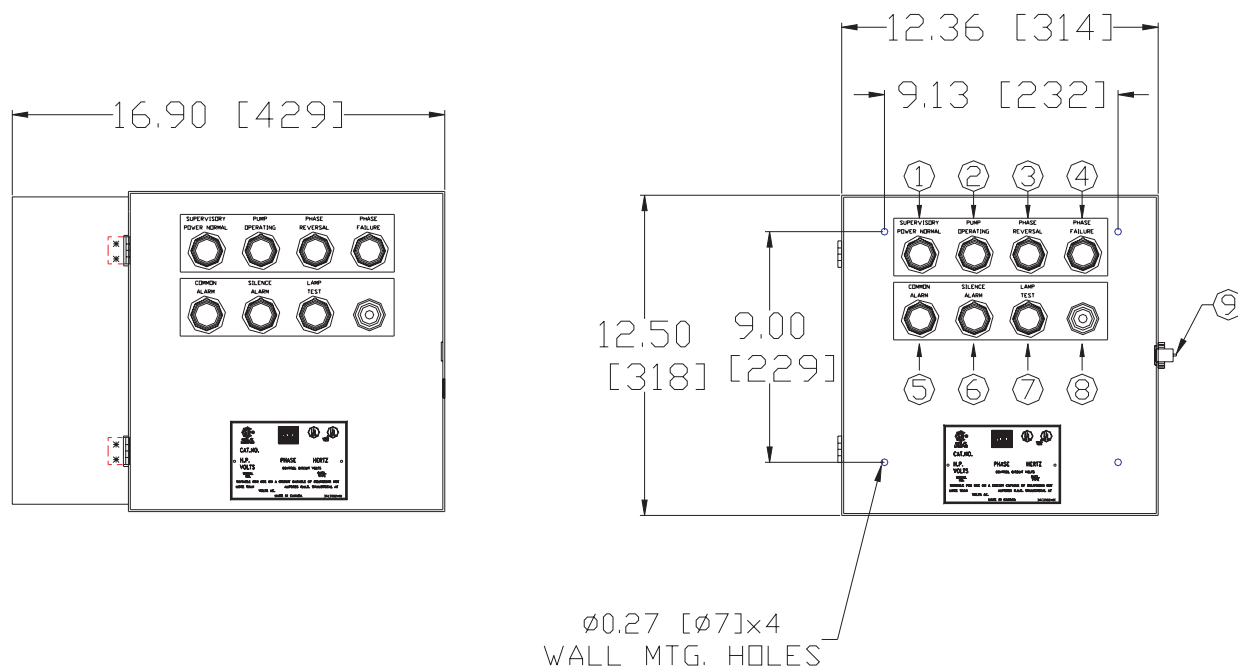
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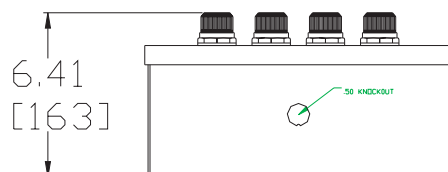
## FDAP-M Electric Remote Alarm Panel

## Dimensions

## Standard Enclosure - Type NEMA 1 - Electric Remote Alarm Panel



- ① -SUPERVISORY POWER NORMAL
- ② -PUMP OPERATING
- ③ -PHASE REVERSAL
- ④ -PHASE FAILURE
- ⑤ -COMMON ALARM
- ⑥ -SILENCE ALARM
- ⑦ -LAMP TEST
- ⑧ -BUZZER
- ⑨ -DOOR LATCH



Approx. Weight  
Lbs. (Kg)

40 (18)



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## NOTES:

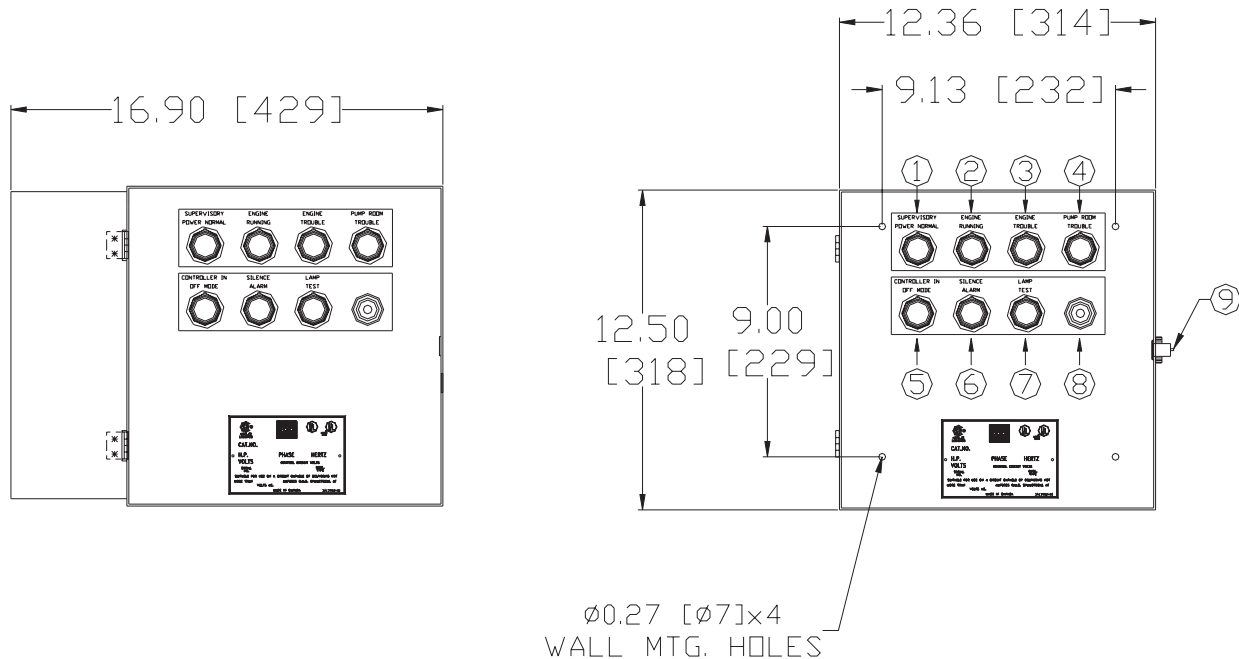
1. All enclosures finished in FirePump red.
2. Cable Entrance either top or bottom.
3. Standard Enclosure type NEMA 1.

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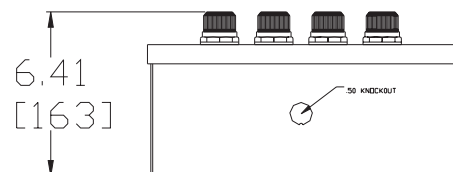
## DFDAP-M Diesel Engine Remote Alarm Panel

## Dimensions

## Standard Enclosure - Type NEMA 1 - Diesel Engine Remote Alarm Panel



- ① -SUPERVISORY POWER NORMAL
- ② -ENGINE RUNNING
- ③ -ENGINE TROUBLE
- ④ -PUMP ROOM TROUBLE
- ⑤ -CONTROLLER IN OFF MODE
- ⑥ -SILENCE ALARM
- ⑦ -LAMP TEST
- ⑧ -BUZZER
- ⑨ -DOOR LATCH



Approx. Weight  
Lbs. (Kg)

40 (18)



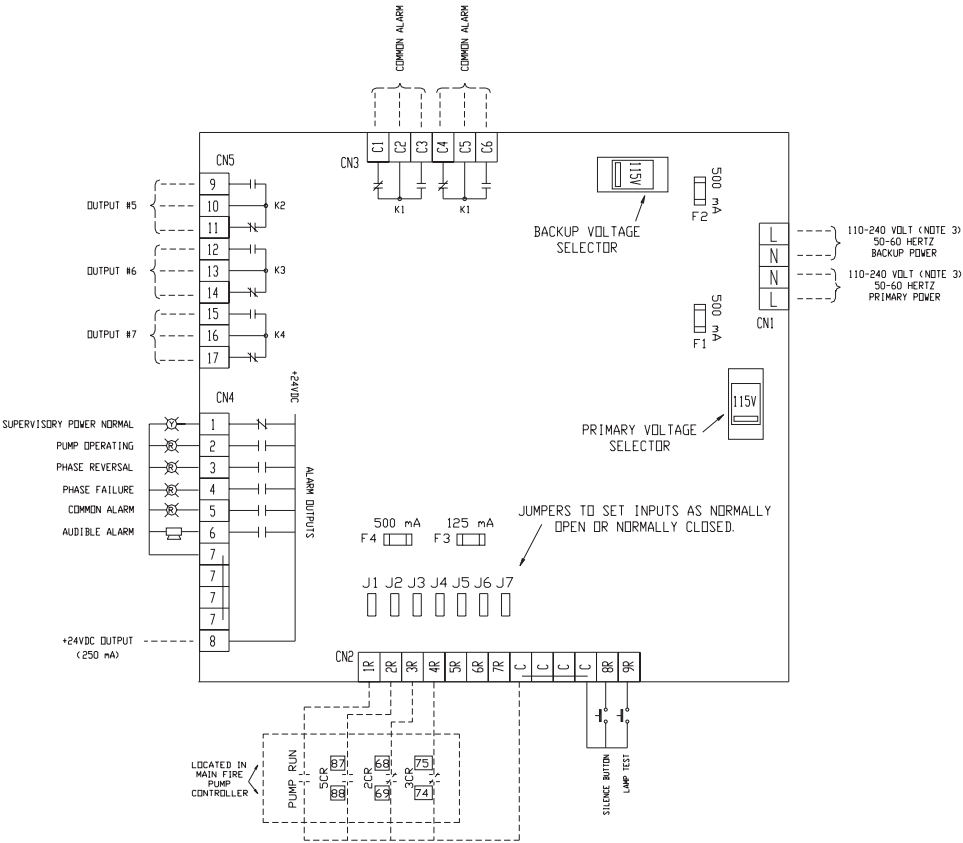
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## NOTES:

1. All enclosures finished in FirePump red.
2. Cable Entrance either top or bottom.
3. Standard Enclosure type NEMA 1.

FDAP-M Electric Remote Alarm Panel

Electrical Wiring Schematic  
Electric Remote Alarm Panel

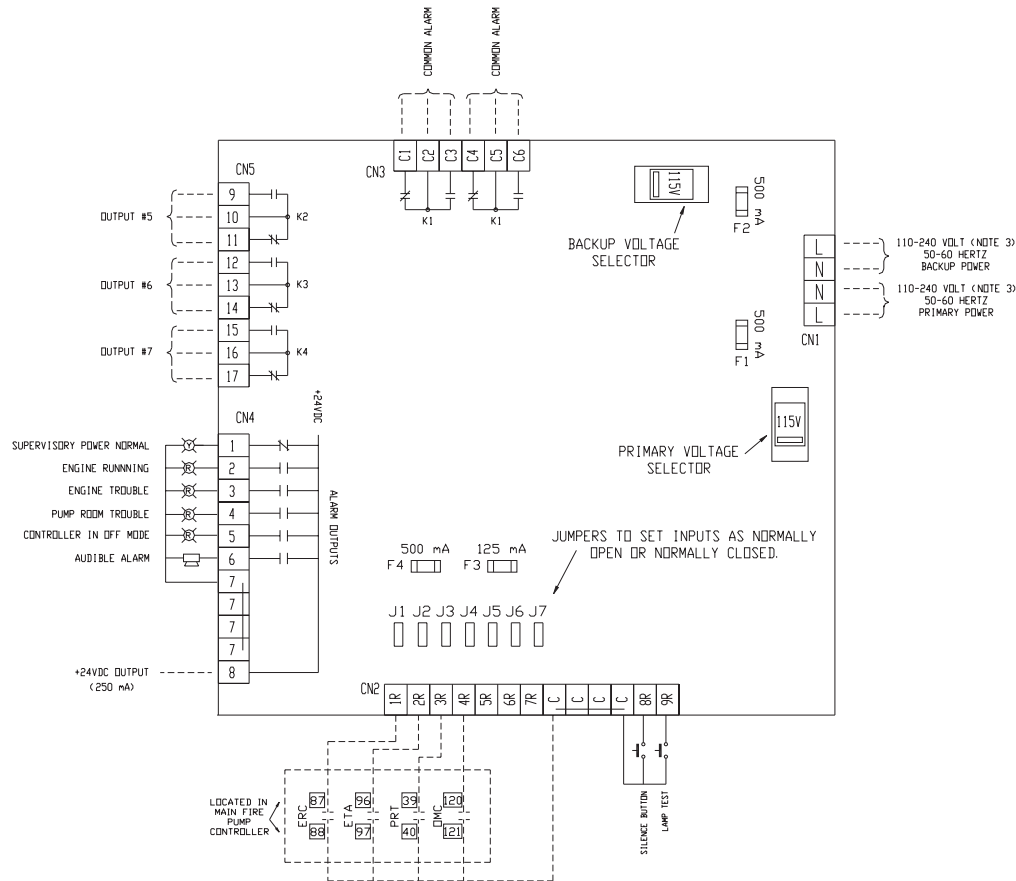


- NOTES:
1. ALL RELAY CONTACTS ARE SHOWN IN NO POWER CONDITION.
  2. FOR CONNECTIONS TO FIRE PUMP CONTROLLER REFER TO DRAWINGS DDFDX01.
  3. ENSURE VOLTAGE SELECTOR SWITCH IS SET CORRECTLY BEFORE ENERGIZING

- NOTES:
1. All Relay Contacts are shown in No Power condition.
  2. For connections to Fire Pump Controller - Refer to the Electrical Wiring Schematic drawing in the corresponding fire pump controller sales brochure.
  3. Ensure voltage selector switch is set correctly before energizing.

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## DFDAP-M Diesel Engine Remote Alarm Panel

Electrical Wiring Schematic  
Diesel Remote Alarm Panel

RECOMMENDED WIRE SIZE (AWG)	NUMBER OF FEET (METERS) FROM THE CONTROLLER TO THE REMOTE PANEL
#16	3000' [914.4]
#14	4500' [1371.6]
#12	7000' [2133.6]

## NOTES:

1. ALL RELAY CONTACTS ARE SHOWN IN NO POWER CONDITION.
2. FOR CONNECTIONS TO FIRE PUMP CONTROLLER REFER TO DRAWINGS DDFDX01.
3. ENSURE VOLTAGE SELECTOR SWITCH IS SET CORRECTLY BEFORE ENERGIZING

## NOTES:

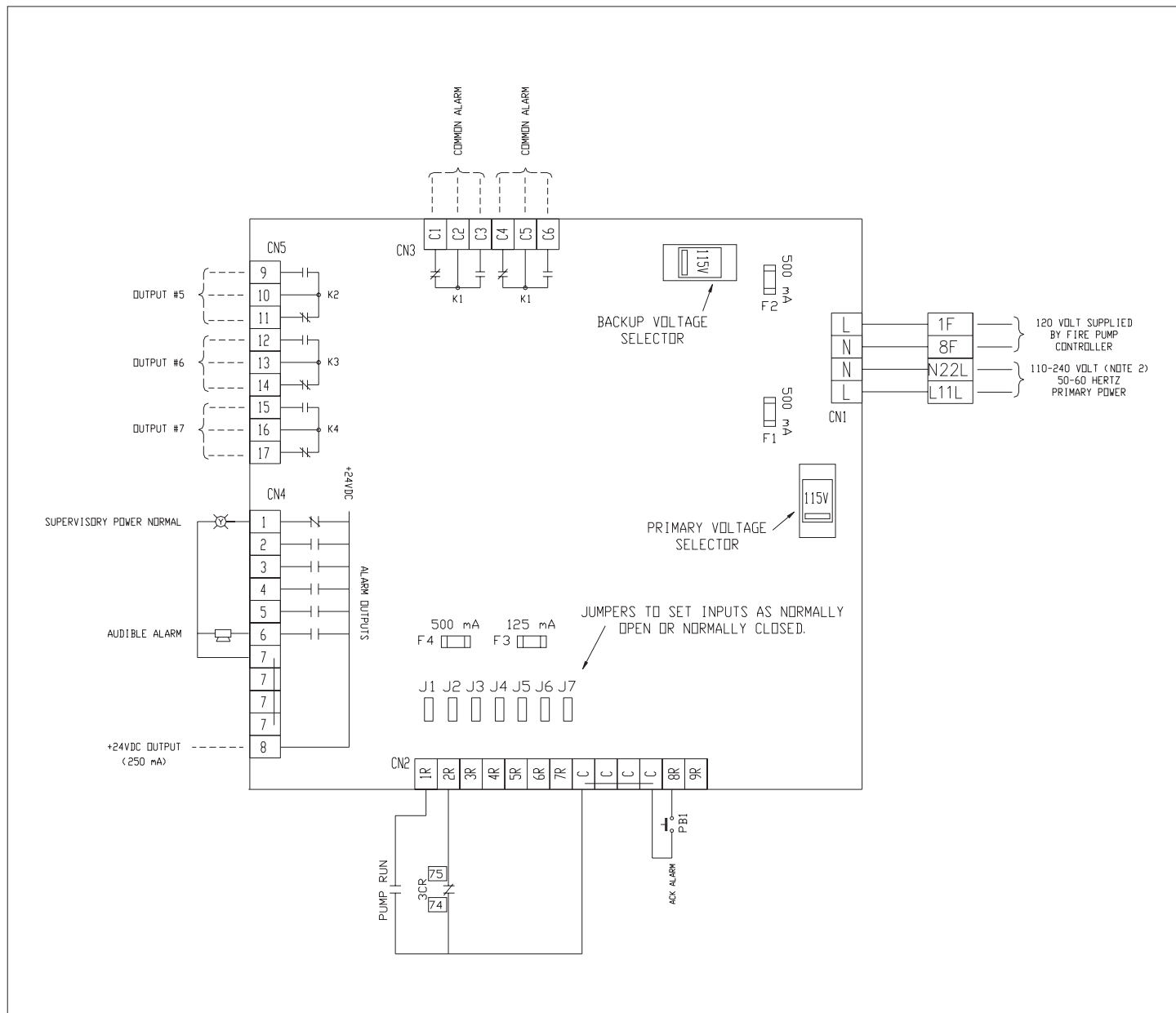
1. All Relay Contacts are shown in No Power condition.
2. For connections to Fire Pump Controller - Refer to the Electrical Wiring Schematic drawing in the corresponding fire pump controller sales brochure.
3. Ensure voltage selector switch is set correctly before energizing.



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## FDAP-M Electric Local Alarm Panel

Electrical Wiring Schematic  
Electric Local Alarm Panel

## NOTES:

1. All Relay Contacts are shown in No Power condition.
2. Ensure voltage selector switch is set correctly before energizing.



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