



**MANUAL**  
**SERIES 1802B**  
**REMOTE ALARM PANEL**

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**METRON, INC.**  
**1505 West Third Avenue**  
**Denver, Colorado 80223**

**Telephone: (303) 592-1903 Fax: (303) 534-1947**

## PART I: GENERAL DESCRIPTION

The basic function of an 1802B Remote Alarm Panel is to provide visual and audible indication of the status of the diesel fire pump controller at a location that is remote from the pump room. The 1802B Remote Alarm Panel can not stop the fire pump controller if it is already running. As an option the remote alarm panel can start the diesel fire pump controller from this remote location.

## PART II: FUNCTION

### A. Alarms and Signals

1. **"System Failure" Light:** This pilot light indicates when there is a low oil condition, high water temperature condition, loss of charger/AC condition, overspeed condition or overcrank condition.
2. **"Switch in Off" Light:** This pilot light indicates when the main selector switch on the diesel fire pump controller is in the "Off" position.
3. **"Engine Running" Light:** This pilot light indicates when the engine is in operation.
4. **"Battery Failure" Light:** This pilot light indicates when either Battery 1 or Battery 2 is missing or has a low voltage.
5. **Additional optional lights may be added.**

**B. "Press to Test" Buttons:** These buttons are used to test the bulb in the corresponding light location. By pressing the "Press to Test" button the corresponding light should come on.

**C. "Alarm Power" Switch:** This switch turns on the power to the remote alarm panel.

**D. "Alarm Silence" Button:** This button will silence the alarm bell but will not reset the light.

**E. "Remote Start" Button (Optional):** This button will start the diesel fire pump controller when it is pressed.

## PART III: INSTALLATION

The remote alarm panel has been assembled and wired at the factory with the highest workmanship standards. All wiring and functions have been thoroughly tested to assure correct operation when properly installed.

## PART IV: INITIAL INSTALLATION START-UP PROCEDURE

Connect the remote alarm panel up to the 120VAC source and the diesel fire pump controller. Please refer to the schematic that came with the 1802B Remote Alarm Panel for connection points within the diesel fire pump controller. Verify that all the lamps are in good operating condition by pressing the "Press to Test" buttons for all the visual alarms.

In order to thoroughly test the remote alarm panel all the alarm and signal conditions for the diesel fire pump controller must be tested. This is done by causing the controller to be in an alarm condition and verifying that the corresponding light, alarm and alarm silence switch on the remote alarm panel are functional. Please refer to the diesel fire pump controller operation manual in order to cause the controller to go into each of the alarm conditions.

## PART V: OPERATION OF THE REMOTE ALARM PANEL

After the installation and test procedures are completed, the remote alarm panel is ready for normal operation.

- A. Verify that 120VAC power is applied to terminals 1 and 2 of the remote alarm panel.
- B. Verify that the "Power On" switch is in the "On" position.
- C. The "Power On" light is "On".

## PART VI: SEQUENCE OF OPERATION

- A. **Introduction:** The explanation of the sequence of operation will start with the assumption that the remote alarm panel has been properly installed, all external connections have been made and the "Power On" switch is "On" and the "Power On" light is "On".
- B. **Remote Start Operation (Optional):** To start the diesel fire pump controller just press the "Remote Start" button. This N.O. button will close and cause the diesel fire pump controller to start through the remote start circuitry available on the controller. Please refer to the diesel fire pump controller operation manual for the remote starting of the controller.
- C. **Alarms:** All audible alarms on the remote alarm panel operate in the same manner.

The N.O. contact from the controller which is connected to the corresponding terminal on the remote alarm panel will close during the appropriate condition. When this contact closes the corresponding light will come on and the alarm will ring. By pressing the "Alarm Silence" button the audible alarm will be silenced but the light will not go out. If a second alarm condition should occur after the first, the corresponding light will go on and the alarm bell will ring again.

Pressing the "Alarm Silence" button will not clear or reset the alarm condition at the controller. The condition must clear itself or the controller must be reset to clear the alarm condition. Once the condition has cleared the corresponding light on the remote alarm panel will go out. Please refer to the appropriate operation manual for alarm conditions and how to reset them.

