



DESCRIPTION

When upgrading an existing SHP® to an SHP Pro®, it is necessary to replace all of the electronic components, as well as the enclosure door. Only the enclosure back box can be reused.

The SHP Pro upgrade kit, P/N 10-065-m-c-p, contains the following components:

- SHP Pro Controller, P/N 10-2452-(1 or 2)
- Power Transformer, P/N 02-10881
- Door Assembly/Upgrade Kit, P/N 10-2505-c

The following optional components must be ordered separately as required by your specific installation:

- Class A Input Card, P/N 10-2450
- Class A Output Card, P/N 10-2448
- CRM4 Relay Card, P/N 10-2204

⚠ CAUTION: The SHP Class A Input card P/N 10-2171 and the SRM4 Relay Card P/N 10-2176 are not compatible with the SHP Pro and must be replaced.

INSTALLATION INSTRUCTIONS

Read the following instructions carefully and completely before attempting to install the upgrade kit components.

Refer to the SHP Pro product manual for complete installation and configuration instructions.

1. Inform building owner and third party monitoring (if applicable) that the system is going to be taken off-line.
2. Disarm all suppression containers.
3. Disconnect power feeds to the SHP panel. First turn off AC power feed to the panel; then disconnect standby batteries.
4. Label existing field wiring as to its purpose.
5. Disconnect field wiring from SHP terminals.
6. Remove the SHP controller (including standoffs) and power transformer.

⚠ Caution: Do not reuse existing 2 inch (51 mm) standoffs. Doing so will cause SHP Pro board to make contact with the enclosure door when closed, potentially causing unwanted operation.

7. Remove the enclosure door grounding wire.
8. Remove the enclosure door by unscrewing the two (2) hinge screws.

9. Unpack and install the new enclosure door, securing it in place with the two (2) new hinge screws provided.
10. Install the new enclosure door grounding wire using the hardware provided.
11. Install the five (5) 1.5" M-F standoffs provided for controller installation to the press studs in the back of the enclosure (See Exhibit 1).
12. Unpack the SHP Pro controller and install optional modules (i.e., Class A Input, Class A Output, or CRM4 Relay) using supplied mounting hardware, if applicable (See Exhibit 2).

⚠ Caution: Use anti-static safety precautions when handling all electronic components.

13. Secure controller to the standoffs using the hex-nuts and star washers provided (See Exhibit 1).
14. Install the new Power Transformer to the press studs provided in the enclosure back box. Secure in place using the hex-nuts and star washers provided.
15. Connect AC power feed wires to the transformer primary side; then install supply wires from the transformer secondary side to the controllers AC power input terminals.
16. Apply AC power to the controller. All LEDs and panel audible will turn on for 2-4 seconds. The following troubles should be annunciated within 30 seconds.
 - Trouble LED (yellow) illuminates
 - Diagnostic LED will show "E" since batteries are not connected.

Do not proceed with installation unless system is free of troubles except those indicated above.

17. Remove AC power to the controller.
18. Connect field wiring to appropriate terminals on the SHP Pro controller.

⚠ Caution: Use extreme caution when landing field wiring as the terminal layout between the SHP and the SHP Pro differs greatly.

⚠ Caution: Do not rearm suppression containers at this time.

19. Replace existing field circuit end-of-line resistors with SHP Pro EOL's.
20. Set operational dip-switches on the SHP Pro controller accordingly. Refer to SHP Pro Product manual, P/N 06-297 for configuration options and instructions on setting dip-switches.
21. Clip 0-ohm jumpers if using contact closure type devices on Input 1 or 2 (if applicable).
22. Apply AC power to the controller and verify that only battery missing trouble "E" is present.
23. Connect the standby batteries and reset the system. Verify that only the AC Normal LED is illuminated.

Note: If you receive a battery missing trouble "E" with the standby batteries connected, you may have a battery charging supervision fault. Refer to Technical Bulletin DC10-001 for details.

24. Thoroughly test the system operation verifying that all inputs, outputs, and releasing circuits operate correctly.
25. Reset the control panel verifying that only the AC Normal LED is illuminated; then rearm the suppression containers.
26. Inform building owner and third party monitoring (if applicable) that the system is back on-line.

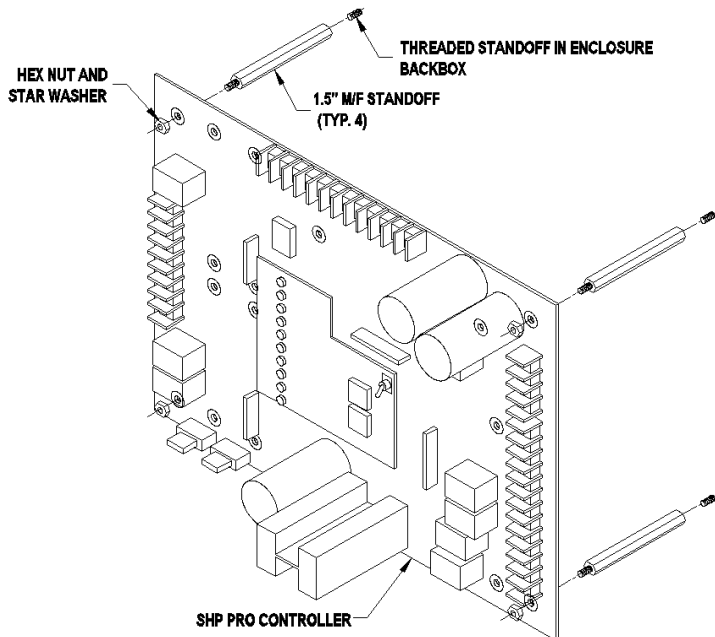


Exhibit 1 SHP Pro Controller Installation

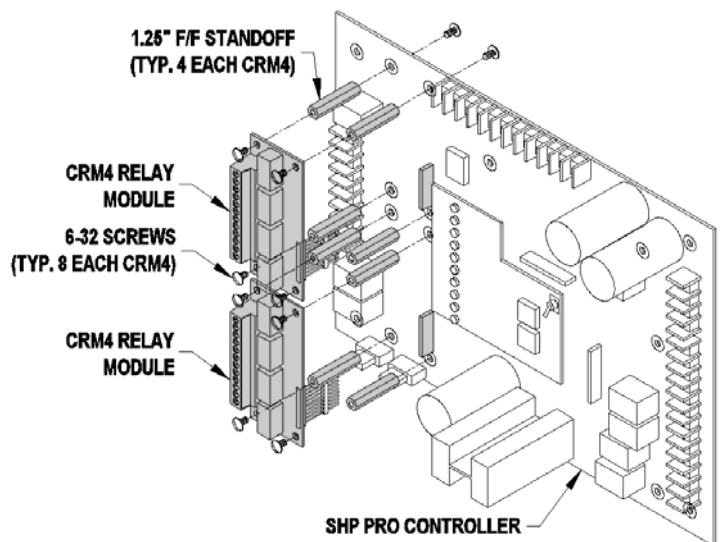


Exhibit 2 Optional Card Installation