

Sigma-XT

Installing and Setting Up System

Installing and Setting Up a Sigma XT System

There are 2 parts to the panel.

The top part is the detection circuit (CP part) as in a regular fire alarm system. The bottom part which is the gas control system (XT part).

NEVER USE A MEGGER ON ANY PART OF THE SYSTEM.

1. Do not power up the panel. Leave the gas bottle disconnected.
2. Measure the detection circuits with a digital multimeter the resistance should be approximately 6.8K
3. Connect the detection circuit to the Zones at the CP part of the panel.
4. Configure and Connect the warning signs and status units
 - a. 4 wires are required, 2 for power and 2 for communications
 - b. Each Warning Sign must be set with a own number (1 to 7) by setting the address switches in the warning sign. A total of 7 are allowed.
 - c. Each Status Unit must be set with its own number (1 to 7) by setting the address switches in the warning sign. A total of 7 are allowed.
 - d. The warning signs and status units MUST be wired in a daisy chain. In and out terminals are provided on each unit.
 - e. Remove the termination Jumper J2 on each unit EXCEPT for the last one.
 - f. Set the switches on each warning sign to match the function for the top and bottom half.
 - i. FIRE – First Alarm
 - ii. 2nd Stage Alarm
 - iii. Sys Inop for System inoperative
 - g. Set the switches on each warning sign for buzzer or flashing (part of the address switch)
 - h. Connect the communications to Serial Status terminals at the bottom of the XT module.
 - i. Connect the power feed to Status Power terminals at the bottom of the XT module.
5. Turn on mains to the panel.
6. Wait for faults to appear. Hit Silence Buzzer.
7. Turn Enable **KEY SWITCH** (at the top) to the right.
8. **On the CP panel (top part).** - This will normally have been set up in the factory. It allows the CP section to talk to the XT section.
 - a. Slide the write enable switch to the right.
 - b. The display should read 00.
 - c. If the display shows a LETTER and a NUMBER, press ENTER to accept the new module. (this will be the address of the XT module)
 - d. Slide the Write Enable switch to the left.
9. **On the XT panel (bottom part).** - This has to be done in the field and allows the XT section to 'talk' to the field devices (status units and warning signs).
 - a. With the Enable **KEY SWITCH** (step 7) still turned to the right.
 - b. Slide the Write Enable switch to the left

- c. The display will change to “Output Unit X – ENTER to Accept “ or “Status Unit X – ENTER to Accept”. Output units are Warning Signs.
 - d. Press ENTER
 - e. The display will change to the next one... Accept each one by pressing ENTER.
 - f. Ensure that the numbers of the units in the field match the numbers you have accepted. Only the changes made in the field will be shown.
 - g. The display will show AL3 Updates = XX. This number is increased every time the config is changed.
 - h. Slide the Write Enable switch to the right.
 - i. The display should read Access Level 2.
- 10. Turn Enable **KEY SWITCH** (at the top) to the left.
 - 11. The XT panel display should read “Manual and Auto”
 - 12. Place alarms on each detector and ensure that the system works as expected.
 - 13. Connect Gas.

GENERAL NOTES:

If a double addressing occurs, the status units or warning signs (output unit) will go in and out of fault.

If the the XT panel says Config WP fault, the Write Enable switch on the XT panel is set to “Write” mode.

The CP display will indicate NX (where X is the address of the XT board whenever there is a fault on the XT section.

Detailed settings can be found in the Manual for the XT system, but generally will not need to be changed.

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