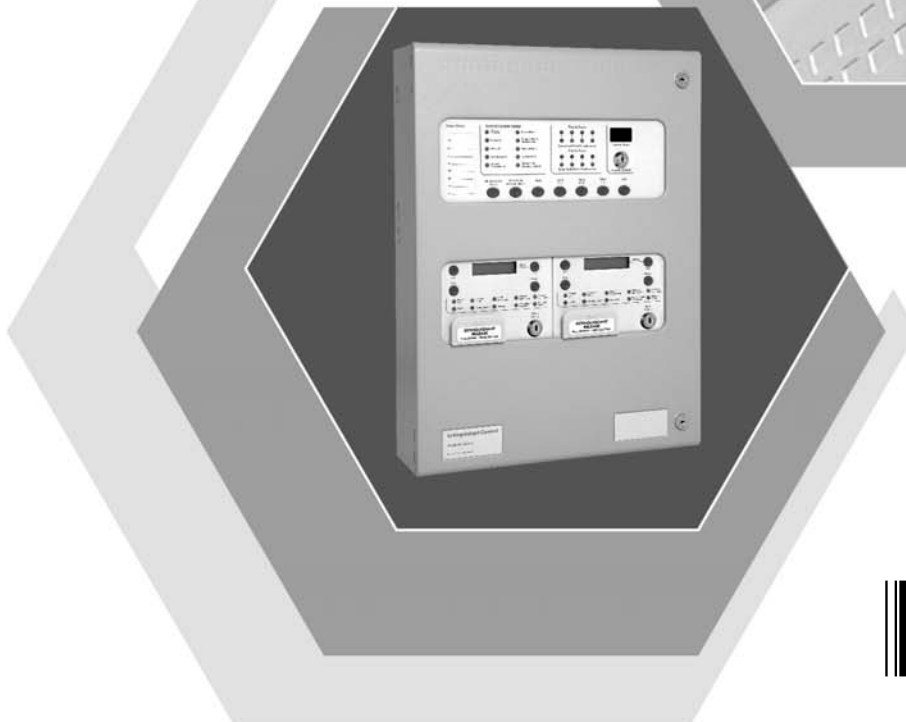
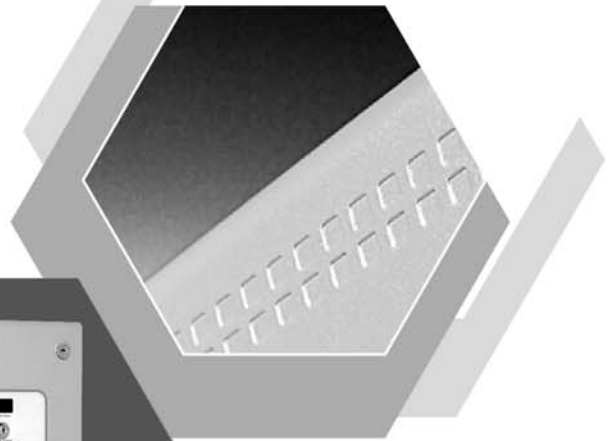


Sigma XT+

Extinguishant Control Panel

User Manual

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Panel operation – Access levels 1 and 2

1 Normal condition

Under normal conditions and in Manual & Auto mode, the unit will have only the green, *Power On* LED lit. With the ENABLE controls key switch off, LCD will show:

```
MANUAL & AUTO
```

When switched to Manual Only mode, the Manual only yellow LED will be lit and the display will show:

```
MANUAL MODE
```

The ECU has 3 access levels. Access level 1 is available at all times and allows operation the Buzzer silence button and the Lamp test function by holding down the EXIT button for more than 2 seconds. Access level 2 is enabled after operation of the front panel mounted Enable Controls key switch and Access level 3 allows configuration options to be set following operation of the Write Enable switch while at access level 2 (Enable Controls keyswitch operated).

2 Access level 2

With the Enable Control key switch operated, the LCD will display:

```
ACCESS LEVEL 2 ►
```

```
ENTER FOR MENU
```

Press the ENTER button to view the following menu options.

2.1 Disable Extinguishant release outputs.

To disable both of the Extinguishant release outputs, press the UP button on the module while at access level 2.

The display will show:

```
DISABLE
```

```
EXTING. RELEASE ? Press the Enter button to select this function. The display will show:
```

```
ENABLE
```

```
EXTING. RELEASE ? The yellow disabled LED on the module that has been disabled will be lit.
```

Turn the Enable key switch off to leave the disablement active. To re-enable the Extinguishant outputs repeat the procedure above.

2.2 Disable Manual release

To disable all Manual release inputs (front panel mounted and remotely connected), press the UP button on the module while at access level 2 until the module displays:

```
DISABLE
```

```
MANUAL RELEASE ? Press the Enter button to select this function. The display will show:
```

```
ENABLE
```

```
MANUAL RELEASE ? The yellow disabled LED on the module that has been disabled will be lit.
```

Turn the Enable key switch off to leave the disablement active. To re-enable the manual release facility repeat the procedure above.

2.3 Disable Stage 1 output

To disable the 1st Stage relay output, press the UP button on the module while at access level 2 until the display shows:

```
DISABLE
```

```
STAGE 1 OUTPUT ? Press the Enter button to select this function. The display will show:
```

```
ENABLE
```

```
STAGE 1 OUTPUT ? The yellow disabled LED on the module that has been disabled will be lit.
```

Turn the Enable keyswitch off to leave the disablement active. To re-enable the Stage 1 relay output repeat the procedure above.

2.4 Disable Stage 2 output

To disable the 2nd Stage relay output, press the UP button on the module while at access level 2 until the display shows:

```
DISABLE
```

```
STAGE 2 OUTPUT ? Press the Enter button to select this function. The display will show:
```

```
ENABLE
```

```
STAGE 2 OUTPUT ? The yellow disabled LED on the module that has been disabled will be lit.
```

Turn the Enable keyswitch off to leave the disablement active. To re-enable the Stage 2 relay output repeat the procedure above.

2.5 Disable Released output

To disable the Released relay output, press the UP button on the module while at access level 2 until the display shows:

```
DISABLE
```

```
RELEASED OUTPUT ? Press the Enter button to select this function. The display will show:
```

```
ENABLE
```

```
RELEASED OUTPUT ? The yellow disabled LED on the module that has been disabled will be lit.
```

Turn the Enable keyswitch off to leave the disablement active. To re-enable the Released relay output repeat the procedure above.

2.6 Disable Extract output

To disable Extract relay output, press the UP button on the module while at access level 2 until the display shows:

```
DISABLE  
EXTRACT OUTPUT ?
```

 Press the Enter button to select this function. The display will show:

```
ENABLE  
EXTRACT OUTPUT ?
```

The yellow disabled LED on the module that has been disabled will be lit.

Turn the Enable keyswitch off to leave the disablement active. To re-enable the Extract relay output repeat the procedure above.

2.7 Turn on Extract output

To turn on the extract relay output, press the DOWN button on the module while at access level 2 until the display shows:

```
TURN ON  
EXTRACT OUTPUT
```

 Press the Enter button to select this function. The display will show:

```
TURN OFF  
EXTRACT OUTPUT ?
```

The yellow disabled LED on the module that has been disabled will be lit.

Turn the Enable keyswitch off to leave the Extract output active. To turn off the Extract output, repeat the procedure above.

Note: the extract output does not turn off when the module is reset.

2.8 Reset

To reset the ECU, insert the Enable key, turn to the right then press the Reset button.

The unit will reset only after the Reset Inhibit timer has expired once the activated condition has been established.

2.9 Sounder fault

A fault on either of the sounder circuits will light the Fault LED and the ECU will display:

```
STAGE 1 ALARMS  
FAULT  
or  
STAGE 2 ALARMS  
FAULT
```

2.10 Power fault

Failure of the mains power or disconnection of the standby battery will cause the *Fault* LED to light and the display will show:

```
POWER SUPPLY  
FAULT
```

2.11 System fault

The System Fault and general fault LEDs will light if the configuration memory has not been set or has become corrupted

2.12 Lamp test

Indicators can be lamp tested by holding down the EXIT button for more than 2 seconds.

2.13 Hold condition

Activation of the Hold input on the ECU or at a remotely mounted status unit will cause the Hold Activated indicator to light on the ECU and on any status units or ancillary boards connected to it.

If the ECU is in the Activated condition and the pre-release timer is running then the Extinguishant release sequence will be halted and the pulsing, 2nd stage sounders shall change to 1 second on, 2 seconds off.

Release of the Hold input shall re-start the pre-release timer from maximum.

2.14 Turn on Extract output

To turn on the extract relay output, press the DOWN button on the module while at access level 2 until the display shows:

```
TURN ON  
EXTRACT OUTPUT
```

 Press the Enter button to select this function. The display will show:

```
TURN OFF  
EXTRACT OUTPUT ?
```

The yellow disabled LED on the module that has been disabled will be lit.

Turn the Enable key switch off to leave the Extract output active. To turn off the Extract output, repeat the procedure above.

Note: the extract output does not turn off when the module is reset.

2.15 Released condition

The released pressure switch input will be connected to a pressure switch mounted on the Extinguishant cylinder which operates when the Extinguishant has been released. This will activate the released indicator on the ECU.

If the Extinguishant has been released by mechanical means i.e. the ECU is not in the activated condition, operation of the released pressure switch input will establish the Released condition.

2.16 Low pressure switch

The low pressure switch input will be connected to a pressure switch on the Extinguishant cylinder which will operate if the pressure in the cylinder falls below a set point. This will happen after the Extinguishant has been released but may happen before release through a leak. The fault LED on the ECU and on the detection part will light and the buzzer will sound when this input is operated.

2.17 Manual only mode

The mode of the system can be toggled between Manual Only and Automatic & Manual by operating the Mode select key switch. When the ECU is in Manual Only mode, the Extinguishant cannot be released via a serial connection to a Sigma CP fire control panel or operation of the monitored activation inputs.

The mode can also be changed to manual by the external mode select input or a keyswitch on a status unit. Any mode select input that is switched to Manual only mode will override a keyswitch switched to Automatic and Manual mode. All inputs must be switched to Manual and Automatic mode for the ECU to be in Automatic and Manual mode.

2.18 Manual Release

The ECU may be activated by Manual release inputs via the manual release control on the front panel, a remotely mounted Manual release control connected to the monitored manual release inputs or by a manual release control mounted on a status unit.

Operation of any of these Manual release controls will immediately activate the ECU and begin the pre-release timer (if the module is configured to have a time delay for Manual release inputs).

2.19 Abort input

The ECU has the facility for connection of an Abort control. Operation of the Abort input during the pre-release delay time or before activation will light the Abort indicator on the ECU and the Extinguishant release timer will be cancelled i.e. the Extinguishant will not be released. The ECU can be immediately reset from this condition.