



DUO-CEL

FIRE DETECTION/ALARM PANEL

User Operation Manual



THIS EQUIPMENT CONTAINS HAZARDOUS VOLTAGES THAT CAN CAUSE DEATH, SERIOUS PERSONAL INJURY, OR EQUIPMENT DAMAGE.

THIS EQUIPMENT CONTAINS NO USER-SERVICEABLE PARTS. DO NOT REMOVE THE FRONT COVER. REFER ALL MAINTENANCE TO SUITABLY QUALIFIED PERSONNEL. EQUIPMENT: **FIRE**

FIRECLASS DUO -CEL

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1. Introduction

This document contains the necessary information for operating the **FIRE**CLASS DUO-CEL Conventional Fire Detection control panel. **NOTE:**

In order to comply strictly with the requirements of EN54-4:1998 Clause 6.2.1 (Power Supply Equipment Enclosure shall meet at least classification IP30 of EN 60529:1991), a rubber bung is inserted into the Keyswitch hole when not in use. Ensure that the rubber bung is re-inserted each time the key is removed from the panel.

2. User Operation - Fire and Fault Conditions

This panel is capable of operating the fire alarm sounders in various ways:

- Sounder circuits can operate per zone or all together.
- Sounder circuits can be continuous or pulsed.

All users should be fully aware of the particular configuration of their system and should have received training in the basic operation of the system.

The following information is provided as a quick reference guide only.

2.1 If a fire is detected:

On the DUO-CEL Fire Alarm Panel:

- The general Fire LED will flash and the buzzer will sound
- The relevant zone Fire LED(s) will flash, indicating the location of the fire.
- The Fire Signal output and LED will operate.
- The Fire Alarm sounders will operate immediately (pulsed or continuous, zonally or together, as per configuration).
- The Fire Relay will operate immediately

Locate the source of the fire alarm (an LED will be visible on the detector which has been activated).

2.2 To silence the fire alarm sounders:

- Turn the Access Key to the vertical position.
- Press the Silence/Resound Alarms button once only.
- The fire alarm sounders will become silent.
- The General Fire LED and the Zone Fire LED(s) will become steady.
- Remove the Access Controls Key to lock the controls.

2.3 To resound the fire alarm sounders after they have been silenced:

• Turn the Access Controls Key on the panel door to the vertical position.

- Press the Silence/Resound Alarms button once only.
- Remove the Access Controls Key to lock the controls.

2.4 To reset the panel from a Fire Alarm:

- After the fire has been extinguished, turn the Access Controls Key on the panel door to the vertical position.
- Press the Reset button.
- The General Fire LED and the Zone Fire LED(s) will clear.
- Remove the Access Controls Key to lock the controls.

2.5 To operate the fire alarm sounders in Evacuate Mode:

- Turn the Access Controls Key on the panel door to the vertical position.
- Press the Evacuate button.
- The Alert/Evac LED will illuminate and the panel buzzer will operate.
- All fire alarm sounders will operate continuously.
- Press the Silence/Resound Alarm button to silence the fire alarm sounders and clear the Alert/Evac LED.
- Remove the Access Controls Key to lock the controls.

2.6 If a fault is detected:

- The panel buzzer will sound.
- The General Fault LED will flash.
- One or more fault LEDs will flash; identifying which element of the system is faulty.
- When the fault is corrected the fault indication will clear automatically, except for the Fuse Failed indication, which requires the Reset button to be pressed.

2.7 To Silence the buzzer:

- Press the Silence Buzzer button.
- The buzzer will silence.

2.8 System Fault Indication:

In the event of a complete system failure, a System Fault will be indicated:

- The SYSTEM FAULT and GENERAL FAULT LED illuminate. All other LEDs will be extinguished.
- The internal buzzer will sound continuously.

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<u>Warning</u>: In the System Fault condition the panel is not functional and fire alarm cover is no longer available.

2.9 User actions in the event of a fault:

- Determine the area affected by the fault and decide whether special actions (such as fire patrols) are needed in that area.
- Call your service engineer *immediately*.
- Record the event in the system log book.

3. Panel Operation.

3.1 Disablement & Test Conditions

Each zone circuit can be disabled or placed into the test mode individually.

All sounder circuits can be disabled or placed into the test mode as a group.

The Fire Signal output can be disabled or placed into test mode.

3.1.1 To test, disable or re-enable circuits:

- **1.** Turn the Access Key to the vertical position.
- 2. Press the Select button to enter the Select Mode.
 - The Controls On LED will flash.
 - The cursor indication will pulse rapidly on the yellow Zone 1 fault LED.
 - The yellow fault LED for any circuit currently in test or disabled will be illuminated.
- **3.** Press the Select button to move the cursor to the required circuit fault LED.

For each circuit the cursor is on, the General Disablement & General Test LEDs will indicate the current status for that circuit:

- i. General Test & General Disablement LEDS OFF: Circuit is in normal operating mode.
- ii. General Test LED pulsing: Circuit is in Test mode.
- iii. General Disablement LED pulsing: Circuit is Disabled.
- **4.** To change the status of the selected circuit, press the Disable or Test button as required:
 - Circuit is currently not disabled or in test: -Press the Disable button to disable, Press the Test button to test.

- Circuit is currently disabled: Press the Disable button to re-enable, Press the Test button to test (the disabled condition will also be cleared).
- Circuit is currently in test: Press the Test button to clear the test, press the Disable button to disable (the test condition will also be cleared).
- 5. To exit from the Select mode, either remove the Access Controls Key to lock the controls or press the Select button repeatedly to scroll the flashing cursor through the remaining circuits until the Controls On LED stops flashing and the flashing cursor is cleared.

3.1.2 To view the disabled circuits:

- **1.** Turn the Access Key to the vertical position.
- 2. Press and hold the Disable button. Only the General Disablement LED and the fault LEDs of any disabled circuits will be illuminated.
- **3.** Release the Disable button to return the display to normal.

3.1.3 To view the circuits in test:

- **1.** Turn the Access Key to the vertical position.
- 2. Press and hold the Test button. Only the General Test LED and the fault LEDs of any circuits in test will be illuminated.
- **3.** Release the Test button to return the display to normal.

3.2 Display Test

Remove the Access Controls Key to lock the controls then press the Test button. All LEDs on the display will illuminate and the internal buzzer will sound for 5 seconds.

<u>4. DUO-CEL Repeater Panel</u> <u>Operation</u>

The repeater panel operation is identical to the Alarm panel except that the disablement & Test facilities cannot be controlled from the repeater.

The display is similar but the Disable and Select buttons are not present.

5. Routine Testing and maintenance

See **FIRE**CLASS DUO-CEL Log Book for details.

6. User responsibilities

See **FIRE**CLASS DUO-CEL Log Book for details.

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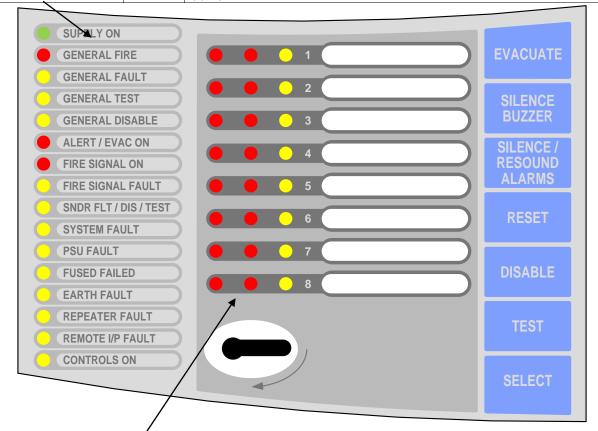
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7. User Indications

General Indicator Section				
Indicator	Colour	Operating Condition		
Supply On	Green	OFF: No mains or battery power, ON: Panel has power (battery and/or mains)		
General Fire	Red	OFF: Quiescent, FLASH: New Alarm Condition, ON: Alarm Accepted		
General Fault	Yellow	OFF: No faults present, FLASH: One or more faults present		
General Test	Yellow	OFF: No circuits in Test, ON: One or more circuits in Test		
General Disablement	Yellow	OFF: No circuits Disabled, ON: One or more circuits Disabled		
Alert/Evac On	Red	OFF : No Alert or Evacuate, FLASH : Remote Alert/Evacuate active, ON : Panel Evacuate active		
Fire Signal On	Red	OFF: Fire Routing output not active, ON: Fire Routing output active		
Fire Signal Flt / Dis / Tst	Yellow	OFF : No fault on Fire Routing output, FLASH : Fault on Fire Routing output, ON : Fire Routing output Disabled or in Test		
Sounder Flt / Dis / Tst	Yellow	OFF : No Fault on Sounder circuits, FLASH : Fault on one or more Sounder circuits, ON : Sounder circuits Disabled or in Test		
System Fault	Yellow	OFF : System is working correctly, ON : System is in the SAFE state (Microcontroller failed or EEPROM data corrupted)		
PSU Fault	Yellow	OFF power supply is healthy, FLASH: PSU fault and/or battery fault		
Fuse Failed	Yellow	OFF : Auxiliary 24Vdc output available, FLASH : Electronic Fuse on Auxiliary 24Vdc output activated		
Earth Fault	Yellow	OFF: No cable faults to Earth, FLASH: One or more cable faults to Earth		
Repeater Fault	Yellow	OFF: No Repeater faults, FLASH: One or more Repeater faults		
Remote Control Fault	Yellow	OFF: No faults on Remote Control input, FLASH: Fault on Remote Control input		
Controls On	Yellow	OFF : User Controls disabled, ON : User Controls enabled, FLASH : Select mode active		



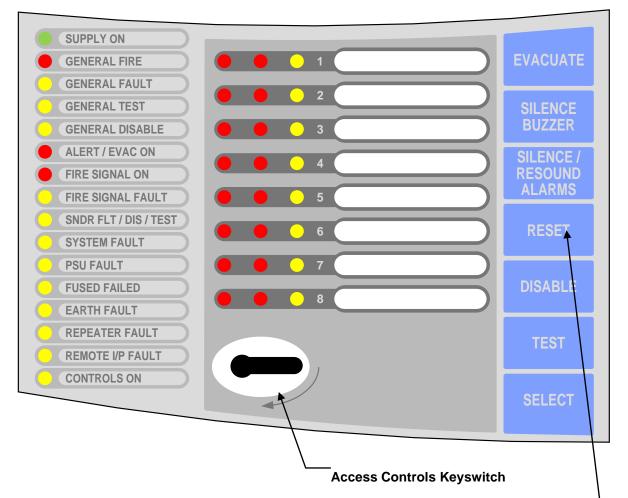
Zone Location Indications					
Indicator	Colour	Operating Condition			
User Zone Location Text	Red	OFF : No Alarm on zone, FLASH : New Alarm on zone, ON : Alarm accepted on zone. NOTE: With Detector/MCP discrimination, the left LED is for MCPs (EVACUATE), the right LED for Detectors (ALERT).			
User Zone Location Text	Yellow	OFF : No Fault on zone circuit, FLASH : Fault on zone circuit, ON : Zone circuit Disabled or in Test			

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8. User Controls



Switch	Functionality	Button Availability	
Evacuate	Operates all sounders continuously and illuminates the Alert/Evac On LED until the Silence/Resound Alarms button is operated		
Silence Buzzer	Silences the internal buzzer on the Panel & Repeaters. When controls are locked or unlock		
Silence/Resound Alarms	When any sounders are active, press to silence sounders. Press again to resound the silenced sounders.	When controls are unlocked	
Reset	Press to clear any fault & alarm conditions and return the panel to the quiescent state	When controls are unlocked	
	Displays Alarm Counter	When controls are locked	
Disable	Illuminates only the currently disabled circuits	When controls are unlocked	
	Toggles the selected circuit between Disabled & Enabled states.	When controls are unlocked and in circuit select mode	
	Press to illuminate all LEDs and sound the buzzer for 5 seconds.	When controls are locked	
Test	Illuminates only the circuits currently in test	When controls are unlocked	
	Toggles the selected circuit between Test & Normal states.	When controls are unlocked and in circuit select mode	
Select	Select First operation enables the circuit select mode; subsequent operations move the flashing cursor through the available circuits until the last circuit, then exits the circuit select mode.		