

**PRESCIENT^{III} STATUS LAMP UNIT
INSTALLATION, OPERATION
& MAINTENANCE MANUAL**

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1. Introduction

The Prescient^{III} Status Lamp Unit is designed for use with the Prescient^{III} Gas Extinguishing Control Panel. The Status Lamp Unit (SLU) is intended to be mounted near to the entry/exit doors of the protected area and provides crucial visual indications regarding the status of the Extinguishant Release System. Optional Extinguishant Release control switches can also be provided on the SLU.

2. Description

The SLU is comprised of two boards:

1. An integrated Display & Control Board, mounted to the inside of the enclosure Door/Lid
2. A Termination Board, mounted to the enclosure backbox

Four types of SLU are available, depending on the level of functionality required:

1. Type 1 - INDICATION ONLY
2. Type 2 – INDICATION + BASIC SLU CONTROLS
3. Type 3 – INDICATION + FULL SLU CONTROLS
4. Type 4 – WEATHER-PROOF - INDICATION + BASIC SLU CONTROL

Table 1 shows the available functions for each type of SLU.

Table 1 – SLU Variations

Function	SLU TYPE CODE				
	0	1	2	3	4
Automatic & Manual LED	SLU DISABLED	✓	✓	✓	✓
Manual Only LED		✓	✓	✓	✓
Gas Released LED		✓	✓	✓	✓
Extinguishing Disabled LED		✓	✓	✓	✓
Emergency Hold Active LED		✓	Not Fitted	✓	✓
Emergency Abort Active LED		✓	Not Fitted	✓	✓
SLU Fault LED		✓	✓	✓	✓
Seconds To Discharge Numeric LED Display		Not Fitted	Not Fitted	✓	Not Fitted
Auto & Manual / Manual Only Keyswitch		Not Fitted	✓	✓	✓
Manual Release Button		Not Fitted	✓	✓	Not Fitted
Timer Hold Button		Not Fitted	Not Fitted	✓	Not Fitted
Emergency Abort Button		Not Fitted	Not Fitted	✓	Not Fitted
Door Lock-Off Input		✓	✓	✓	✓

The SLU communicates with the panel via the two-wire RS485 Serial Communication link. The status of the SLU controls is sent via this link & both the panel & the SLU need to be configured with the correct Type Code as in the above table.

The SLU has the option to have the SLU controls hard-wired back to inputs on the Prescient^{III} Panel. In this case, the status of the SLU controls will no longer be sent via the serial link, therefore the SLU must be configured as TYPE 1 (INDICATION ONLY) and the panel configured accordingly.

2.1 Function details

2.1.1 Automatic & Manual LEDs

Yellow LEDs: illuminated steady if the actuators can be operated both automatically (via a fire alarm on zones 1 & 2) and manually (via manual release).

2.1.2 Manual Only LEDs

Yellow LEDs: illuminated steady if the actuators can only be operated manually (via manual release).

2.1.3 Gas Released LEDs

Red LEDs: normally OFF, illuminating steady when the extinguishing gas is released

2.1.4 Extinguishing disabled LEDs

Yellow LEDs: normally OFF, illuminating steady when the extinguishing gas release facility is disabled.

2.1.5 Emergency Hold Active LEDs

Yellow LEDs: normally OFF, pulsing if the Hold button on a Status Lamp Unit is pressed when the pre-discharge delay timer is not running, illuminating steady if the Hold button is pressed or a fault occurs on the Hold input while the pre-discharge delay timer is running.

2.1.6 Emergency Abort Active LEDs

Yellow LEDs: normally OFF, pulsing if a fault occurs on the Abort input while the Extinguishing System is not in the pre-activated or activated state, illuminating steady if the emergency Abort switch on a Status Lamp Unit is activated, or a fault occurs on the Abort input during the pre-activated or activated state.

2.1.7 SLU Fault LEDs

Yellow LEDs: normally OFF, illuminating if a fault occurs on the SLU.

2.1.8 Seconds To Discharge Numeric LED Displays

Two 7-segment RED LEDs: normally OFF, displaying the status of the Pre-discharge Delay Timer when the system is activated. [i.e. Remaining time, in seconds, until the extinguishing agent is discharged].

2.1.9 Auto & Manual / Manual Only Keyswitch

Allows the Extinguishing system to be set to either the Automatic & Manual mode or to the Manual Only mode. The key can be removed in either position. The Manual Only mode is activated when any one or more SLU keyswitches are set to the Manual Only position. The Automatic & Manual mode is only activated when ALL SLUs have the keyswitch in the Automatic & Manual position and the PrescientTM Panel is set to the Automatic & Manual mode.

2.1.10 Manual Release Button

Allows the Extinguishing System to be manually activated (leading to the release of extinguishing gas), in both the Automatic & Manual mode and the Manual Only mode. The button is a latching push button and has a protective cover to prevent accidental operation. NOTE: Manual Release activation is not indicated on the SLU but the Seconds To Discharge indication (if fitted) will show the Pre-discharge Delay running.

2.1.11 Timer Hold Button

Allows the Pre-discharge Delay Timer to be reset and held (if running). The button is a momentary push button and has a protective cover to prevent accidental operation. The button must be pressed and held to keep the timer held. Once the button is released the timer will automatically restart. As a safety precaution, a 2-second button release delay is initiated so that the timer does not restart for 2 seconds after the button has been released.

2.1.12 Emergency Abort Button

Allows the release of extinguishing gas to be prevented. The button is a latching push button and has a protective cover to prevent accidental operation. Once the button is pressed, the button latches in the active state and the extinguishing system is prevented from operating the actuators. To clear the Abort condition, the button must be returned to the OFF position and the Extinguishing System must be reset.

2.1.13 Door Lock Input

Allows the connection of Door Lock switches to the SLU. If any connected door-lock switch is activated (due to a door to the protected area being unlocked) then the panel is switched to the Manual Only mode.

2.2 Indication Only SLU

Figure 1 below shows the appearance of the INDICATION ONLY SLU.

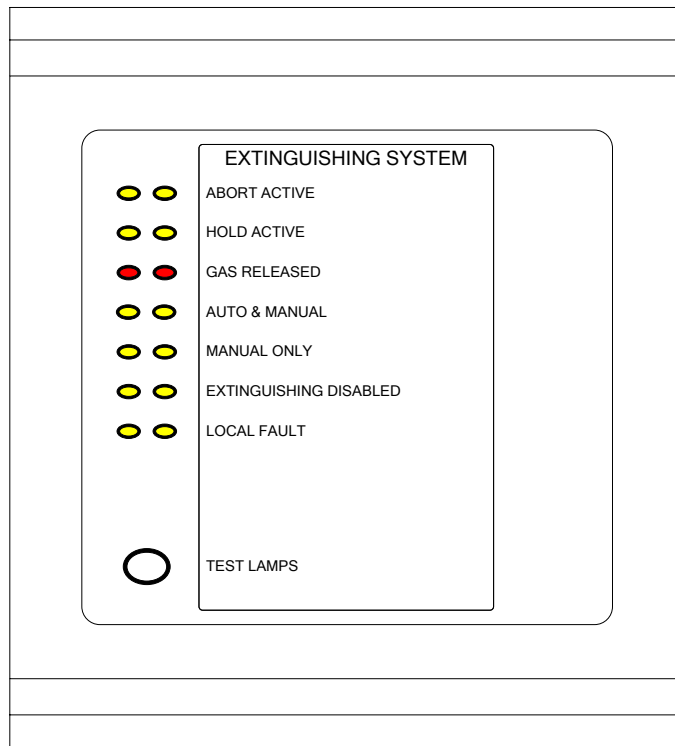


Figure 1

2.3 Indication and Basic Controls SLU

Figure 2 below shows the appearance of the BASIC SLU.

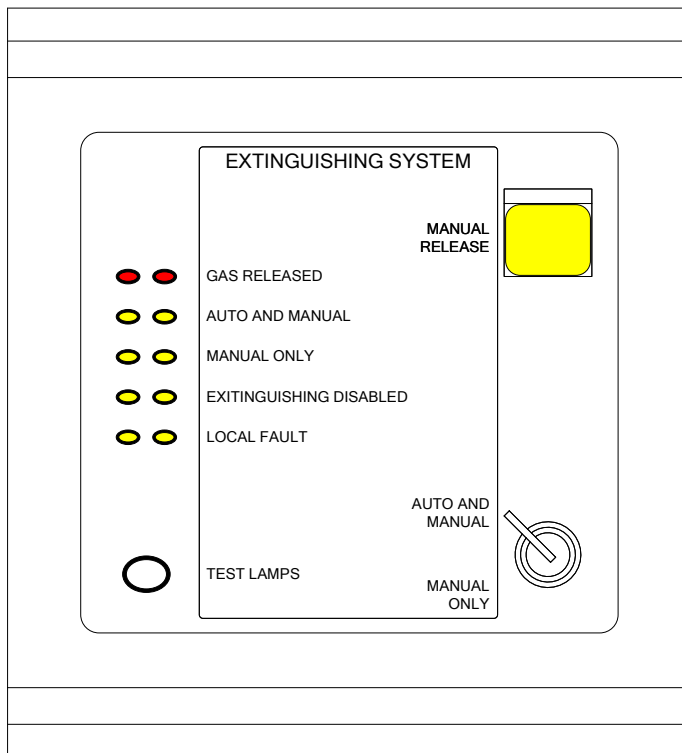


Figure 2

2.4 Indication and Full Controls SLU

Figure 3 below shows the appearance of the FULLY FUNCTIONAL SLU.

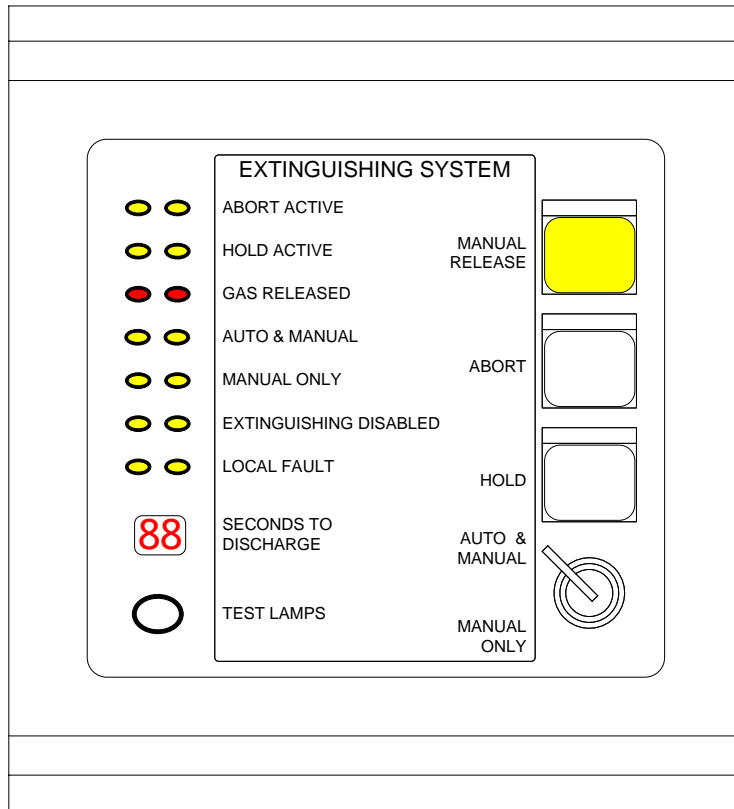


Figure 3

2.5 Weatherproof Indication and Basic Controls SLU

Figure 4 below shows the appearance of the WEATHER PROOF SLU.

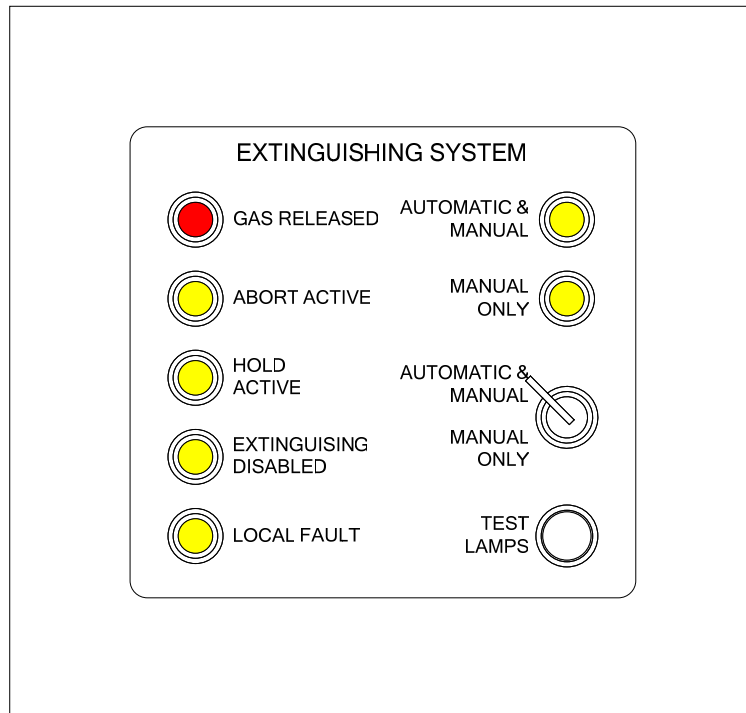


Figure 4

2.7 Enclosure Details – Weatherproof version

Figure 6 below shows the dimensions of the weatherproof SLU enclosure.

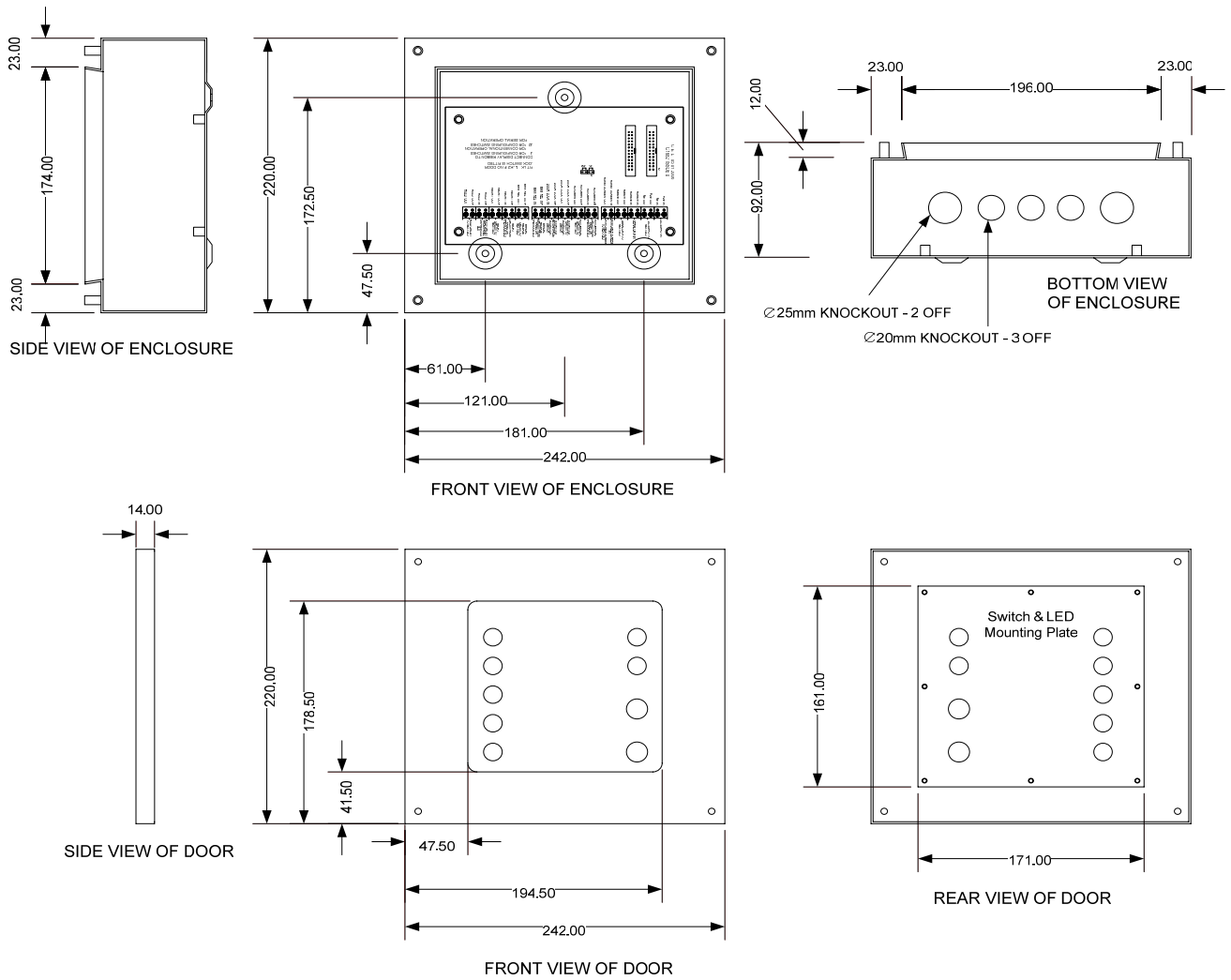


Figure 6

2.8 SLU Termination Board

Figure 7 below shows the terminals to be used for each type of SLU.

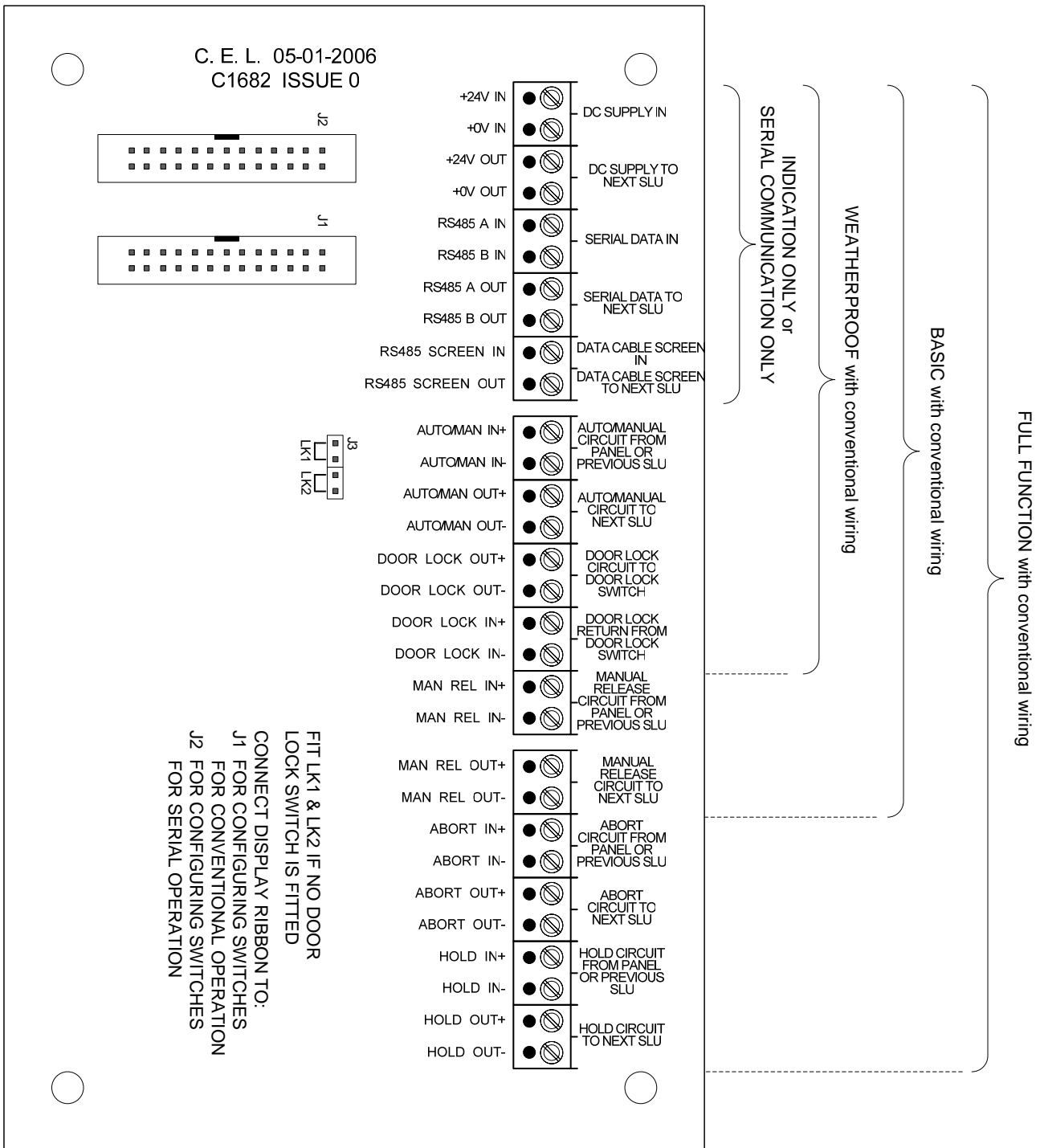


Figure 7 – Termination Board

2.8.1 Connectors J1 & J2

The Ribbon connector from the Display & Control Board is connected either to J1 or to J2.

J1 is used if the control switches are to be conventionally wired back to the panel. In this case, the SLU must be configured at the panel as an INDICATION ONLY SLU (Type code 1). The type code is set automatically when the ribbon cable is connected to J1.

J2 is used if the control switches are monitored by the SLU and their status is transmitted via the RS485 serial data link back to the panel. In this case the SLU must be configured with the correct type code (1 to 4).

2.8.2 Links LK1 & LK2

Links LK1 & LK2 must be fitted if no Door Lock switch is fitted.

If a Door Lock switch is fitted, then both LK1 & LK2 must be removed to ensure correct fault monitoring of the cables. Failure to remove the links will result in the loss of open circuit fault monitoring on the cables to the Door Lock switch.

The Door Lock switch terminals are an extension of the Auto/Manual terminals and four wires are required; two going out to the switch and two coming back from the switch to form a complete loop.

2.9 SLU Display & Control Board

Figure 8 below shows the rear view of the Display & Control Board.

INTERNAL VIEW

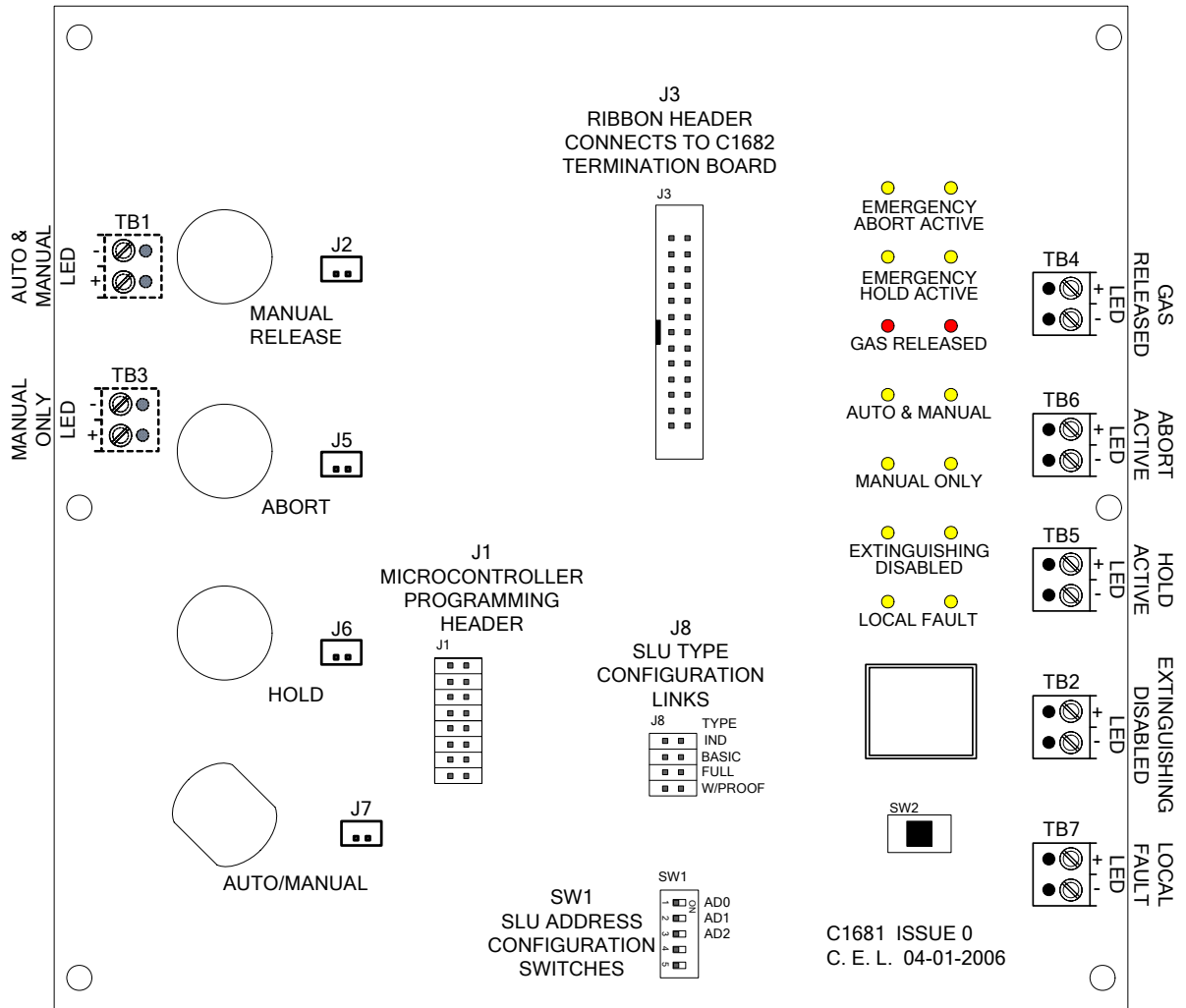


Figure 8 – Display & Control Board

Note: TB1 to TB7 are only fitted on weather proof version.

2.9.1 Connectors J1 To J8 – details

J1 J1 is a 16-way pin-header. It is used only for programming the firmware into the microcontroller during the manufacturing process.

DO NOT CONNECT ANYTHING TO J1.

J2 J2 is a 2-way shrouded & polarised pin header for connecting the Manual Release button.

J3 J3 is a 26-way shrouded & polarised pin header for connection to the C1682 Termination board.

J4 J4 is not used (not shown in Figure 8).

J5 J5 is a 2-way shrouded & polarised pin header for connecting the Emergency Abort Switch.

J6 J6 is a 2-way shrouded & polarised pin header for connecting the Emergency hold Button.

J7 J7 is a 2-way shrouded & polarised pin header for connecting the Auto/Manual Keyswitch.

J8 J8 is an 8-way unshrouded pin header for configuring the SLU Type Code. The Type Code is set by placing an insulated Jumper Link across the required pins.

The SLU uses the Type Code setting to determine which switches to monitor locally. The panel uses the Type Code setting to ensure correct communication and fault response.

Note that if the SLU buttons/switches are hard-wired back to the panel then the SLU Type must be set to INDICATION ONLY, regardless of actual functional type.

2.9.2 Terminal Blocks TB1 to TB7

The Weather-Proof SLU does not have the display & control board mounted directly to the front-plate of the enclosure (due to the need to waterproof the enclosure). Sealed Switches & LEDs are mounted to the front-plate and TB1 to TB7 are used to hard-wire the LEDs to the control board. The control board is mounted to the front-plate on spacers.

2.9.3 DIL Switch SW1

The 5-way DIL switch SW1 is used to configure the address of the SLU. Only SW1-1, SW1-2 & SW1-3 are used. Each SLU must have a unique address, from 1 to 7 (0 = SLU disabled). The following table shows the available settings:

SLU ADDRESS	SW1-1 AD0	SW1-2 AD1	SW1-3 AD2
0	OFF	OFF	OFF
1	ON	OFF	OFF
2	OFF	ON	OFF
3	ON	ON	OFF
4	OFF	OFF	ON
5	ON	OFF	ON
6	OFF	ON	ON
7	ON	ON	ON

2.9.4 Switch SW2 [Test Lamps]

SW2 is a momentary push button switch allowing the user to illuminate all the LEDs to check that they are functioning correctly.

3 Panel Configuration

The Prescient^{III} panel needs to be configured with the type of SLU connected at each address.

First, make sure that all SLUs have been correctly connected, each SLU has been configured with a unique address and each SLU has been configured with the correct Type Code (use type code 1 – INDICATION ONLY for any SLUs which have had their switches hard-wired to the panel inputs).

Make a note in the Log Book for the type code of each SLU.

The configuration process at the panel is as follows:

1. Unlock & open the door of the panel. Move the CONFIG SLU DIL switch on the control board to the ON position. The CONFIG ON LED on the control board will illuminate, the buzzer will sound, the SYSTEM FAULT LED will illuminate and the SELECT ON/OFF LED will pulse. The two-digit display for SECONDS TO DISCHARGE will show SLU address 1 for the first digit and the type code of that SLU on the second digit:

10 = SLU address 1, set to Type code 0 (SLU not present, factory default)

11 = SLU address 1, set to Type code 1 (Indication only or hard-wired switches)

12 = SLU address 1, set to Type code 2 (Basic)

13 = SLU address 1, set to Type code 3 (Full)

14 = SLU address 1, set to Type code 4 (Weatherproof)

2. Press the SELECT ON/OFF button. The first digit will pulse (SLU address) and the buzzer will silence, indicating that the SLU edit mode is active.
3. Press the SCROLL button to change the SLU address value. The second digit will show the Type code set for the selected address. The SLU address digit will change in sequence: **1 2 3 4 5 6 7** and then back to **1**.
4. When the first digit displays the address of the SLU to be configured, press the ENABLE button. The SLU address digit will go steady and the Type Code digit will flash.
5. Press the SCROLL button to change the Type Code to the desired value (valid values: **0 1 2 3 4**). The configuration is stored immediately in EEPROM.
6. Press ENABLE to switch between flashing the first & second digits (address change or type code change).
7. Press SELECT ON/OFF to switch off the edit mode (the edit mode is automatically switched off if no buttons are pressed for 60 seconds).
8. Move the CONFIG SLU DIL switch on the control board to the OFF position.
9. Close & lock the panel door.

NOTE: The SLU configuration status is stored in EEPROM and is not lost when power to the panel is lost.

4 Technical specification

4.1 Indication Only, Basic, & Full Versions

Quiescent current:	25mA ¹
Activated current:	40mA ²
Maximum operating current	95mA ³
Test lamps current:	150mA
Enclosure Dimensions:	233mm high x 205mm wide x 85mm deep ⁴
Weight:	2kg
Cable Size Accepted by Terminals:	1.0 mm ² to 2.5 mm ² CSA (cross sectional area)

4.2 Weather Proof Version

Quiescent current:	40mA ¹
Activated current:	65mA ²
Maximum operating current	120mA ³
Test lamps current:	240mA
Enclosure Dimensions:	220mm high x 242mm wide x 95mm deep ⁴
Weight:	3kg
Cable Size Accepted by Terminals:	1.0 mm ² to 2.5 mm ² CSA (cross sectional area)

Notes:

¹ Quiescent current is to be included in the panel battery capacity calculation for standby time. This current is valid for both automatic and manual modes.

² Activated current is to be included in the panel battery capacity calculation for alarm time. This is the current drawn after the discharge timer has expired and the actuators have operated.

³ Maximum current is in the worst case operating condition with an SLU in hold and the extinguishing disabled. This is the maximum current which can be expected to be drawn in normal operation.

⁴ Enclosure depth does not include 4mm indents for mounting holes (see Figure 5 and Figure 6)

The load on the panel auxiliary supply output must not exceed the rated current. For a single SLU the maximum load is the test lamps current, if more than one SLU is connected the load is the sum of the maximum operating currents for each SLU.

Example:

There are four SLUs connected to a panel: three weather proof and one fully functional.

The maximum operating current is the sum of the maximum operating current of each SLU:

$$\begin{aligned}
 \text{Total current} &= 3 \times \text{weather proof SLU quiescent current} + \\
 &= 1 \times \text{standard SLU quiescent current} \\
 &= 3 \times 120\text{mA} + 95 \text{ mA} \\
 &= 455\text{mA}
 \end{aligned}$$

So the maximum current drawn from the panel is 455mA.

The total current in the mains failed fault condition is:

$$\begin{aligned}
 \text{Mains failed current} &= 3 \times \text{weather proof SLU quiescent current} + \\
 &= 1 \times \text{standard SLU quiescent current} \\
 &= 3 \times 40\text{mA} + 25\text{mA} \\
 &= 145\text{mA}
 \end{aligned}$$

The total current in the mains failed alarm condition is:

$$\begin{aligned}
 \text{Mains failed activated current} &= 3 \times \text{weather proof SLU activated current} + \\
 &= 1 \times \text{standard SLU activated current} \\
 &= 3 \times 65\text{mA} + 40\text{mA} \\
 &= 235\text{mA}
 \end{aligned}$$

5 **SLU Installation & Commissioning**

5.1 **Installation Procedure**

1. Make sure that the Prescient^{III} Gas Extinguishing Control Panel has been correctly installed and commissioned as detailed in the Panel's Installation manual.
2. Unpack the SLU and open the door. For the Weather-proof SLU, unscrew the lid, disconnect the internal ribbon cable and place the lid assembly to one side.
3. Place the enclosure against the wall, mark and fix using the single fixing hole in the upper section of the enclosure. Level the enclosure and complete the fixing operation using the remaining two fixing holes in the lower section of the enclosure. For the weather proof version, use the neoprene washers supplied in the fixing kit to maintain the fixing screw seal.

NOTE: The non-weatherproof versions have the termination board fitted with the terminals towards the top of the enclosure. The weatherproof SLU has the termination board fitted with the terminals towards the bottom of the enclosure (see Figure 5 & Figure 6).

4. Gland the installation wiring into the enclosure using the cable-entry knockouts provided.

NOTE: Five cable entry knockouts are provided at the top of the enclosure (bottom on the weatherproof version). Three of these will accept M20 (20mm diameter thread) cable glands and two of these will accept M25 (25mm diameter thread) cable glands.

5. When all installation wiring is complete, check all the wiring to ensure that it is free from short circuits, open circuits, earth faults, crossed connections etc.
6. Ensure that any disconnected cables are correctly reconnected and shut the door. For the weather-proof SLU, reconnect the ribbon cable and fix the lid to the enclosure using the four screws.
7. Check that any required End-Of-Line resistors are fitted as shown in the wiring diagrams (see Figure 9 & Figure 10).
8. Set the correct address on the SLU as described in section 2.9.3.
9. Set the correct Type Code as described in section 2.9.1.
10. It is advisable to label each SLU with the correct address and type code for future reference.

5.2 **Commissioning Procedure**

NOTES:

In order to avoid accidental operation of the solenoid valves during commissioning the solenoid valves should remain disconnected during the commissioning process. A suitable load resistor (typically 47R, 20W, providing a 0.6A load, check manufacturer's datasheet for actual current or coil resistance) should be connected in place of the solenoid to simulate the presence of the solenoid coils. The solenoid coils should be connected only at the end of the commissioning process.

The commissioning engineer should also be aware of any additional equipment connected to the panel and the consequences of the operation of that equipment during the commissioning process.

Make sure that the ACCESS CONTROLS keyswitch is in the ON position before operating any of the buttons on the display board.

AUTO/MANUAL keyswitches should be in the AUTOMATIC & MANUAL position. The Extinguishing System should be in the Automatic & Manual mode.

1. If the panel is not already powered on, turn ON the mains supply to the panel, and observe that the control panel reacts as follows:
 - a) The green Power Supply On LED illuminates (display)
 - b) The yellow Automatic & Manual LED illuminates (display)
 - c) The yellow General Fault LED flashes (display)
 - d) The yellow Power Supply Fault LED flashes (display)
 - e) The yellow Batt/Charge Fault LED is illuminated (control board)
 - f) The internal buzzer sounds (control board)

g) The Auxiliary Fault Relay operates

No other indications should be present at this time, if there are, identify the fault and rectify it by checking the following:

- a) That the field wiring is free from faults
 - b) That the EOL devices are connected correctly in the last device on each monitored circuit.
2. Connect the batteries to the control board observing correct polarity. Observe (after 20 to 30 seconds) that the control panel reacts as follows:
 - a) The buzzer silences and the fault indications extinguish.
 - b) The Power Supply On LED remains lit.
 - c) The System Automatic & Manual LED remains lit.
 - d) The newly installed SLU indicates SLU FAULT.
 3. Configure the panel for the new SLU as described in section 3. If the panel is correctly configured and the SLU is correctly wired then the SLU FAULT indication (on the SLU) will clear.

Some fault indications may have been latched on the panel during the SLU type code configuration process. If this is the case then press the EXTINGUISHING SYSTEM RESET button to clear the fault indications and check that the panel returns to the quiescent state.

If fault indications return, check that the SLU & panel are configured to the same type code and all hard-wired circuits are correctly terminated.

Depending on the Type of SLU connected, some of the following tests may not be required. All Indications & Switches that are fitted should be tested.

1. Automatic & Manual LED, Manual Only LED:

Check that the Automatic & Manual LED and the Manual Only LED on the SLU match the indication at the panel.

At the panel, press the AUTO & MAN / MANUAL ONLY button to change the state of the Automatic & Manual LED and the Manual Only LED. Check that the LEDs on the SLU also change state. Press the AUTO & MAN / MANUAL ONLY button again to return the panel to it's previous state (Automatic & Manual mode).

If an AUTO/MANUAL key switch is fitted to the SLU then turn the keyswitch to the MANUAL position. Check that the Manual Only LED illuminates. Return the keyswitch to the AUTOMATIC position.

If a door lock switch is fitted to the SLU then unlock the door to the protected area. Check that the Manual Only LED illuminates. Close and lock the door to return the indication to the Automatic & Manual mode.

2. Extinguishing Disabled LED:

Use the Circuit Disable facility at the panel to disable the Extinguishing System. Check that the Extinguishing Disabled LEDs on panel & the SLU illuminate steady.

3. Gas Released LED:

Warning: Ensure that the actuators remain DISCONNECTED before performing this test. Failure to do so may result in the release of extinguishant.

Place a resistor (in the range 400R to 1K) across the GAS REL. terminals at the panel to activate the Gas Released input. Check that the Gas Release LEDs on the panel & on the SLU illuminate.

Remove the resistor and press the Extinguishing System Reset button to reset the panel. The Extinguishing disabled LED should remain illuminated.

Use the Circuit Disable facility at the panel to enable the Extinguishing System. Check that the Extinguishing Disabled LEDs on panel & the SLU are extinguished.

4. Manual Release Button, Emergency Hold Active LED, Emergency Abort LED & Seconds To Discharge Display:

Warning: Ensure that the actuators remain DISCONNECTED before performing this test. Failure to do so may result in the release of extinguishant.

Ensure that the Pre-Discharge Delay timer is set to 60 seconds before testing these LEDs.

Operate the Manual Release button on the SLU if fitted or insert the Test key into the Manual Release call point on the door of the panel. Check that the Pre-Discharge delay is running on the panel (the Extinguishing Sounders should be pulsing every second).

At the SLU check that Seconds To Discharge display shows the remaining delay time in seconds.

If the system has no Emergency Hold and Abort switches connected the following tests are not required.

- i) At the SLU press and hold the HOLD button. Check that the Emergency Hold LED is illuminated and the Seconds To Discharge display stops at 60 seconds. The Extinguishing Sounders should pulse once every 5 seconds.
- ii) Release the HOLD button to restart the delay.
- iii) Press the ABORT button. The button will latch in the ON position. Check that the Emergency Abort LED is illuminated and the Seconds To Discharge display clears. The Extinguishing Sounders should silence.
- iv) Press the ABORT button again to return the button to the OFF position. The indications should remain unchanged.

Remove the Test key from the Manual Release call point (if inserted) and then press the EXTINGUISHING SYSTEM RESET button to reset the panel indications. The SLU indications will also be reset.

5. SLU Fault LED:

Disconnect the cables from the RS485 A IN and RS485 B IN terminals on the SLU. Check that after a few seconds the SLU illuminates the SLU fault LED. The panel should also indicate a SLU fault.

Reconnect the cables and check that the SLU and panel return to normal.

6. Test Lamps button:

Press the Test Lamps button on the SLU. All LEDs on the SLU will illuminate for 5 seconds.

The commissioning procedure is now complete. The above procedure should be repeated for each additional SLU required.

After all SLUs have been successfully installed & commissioned, the Pre-discharge Delay on the panel should be set to the desired period and the solenoids can be reconnected. Any additional disconnections or disablements can be restored and the panel can be returned to fully operational condition.

6.2 SLU Connection Diagram when using serial communication of switch status

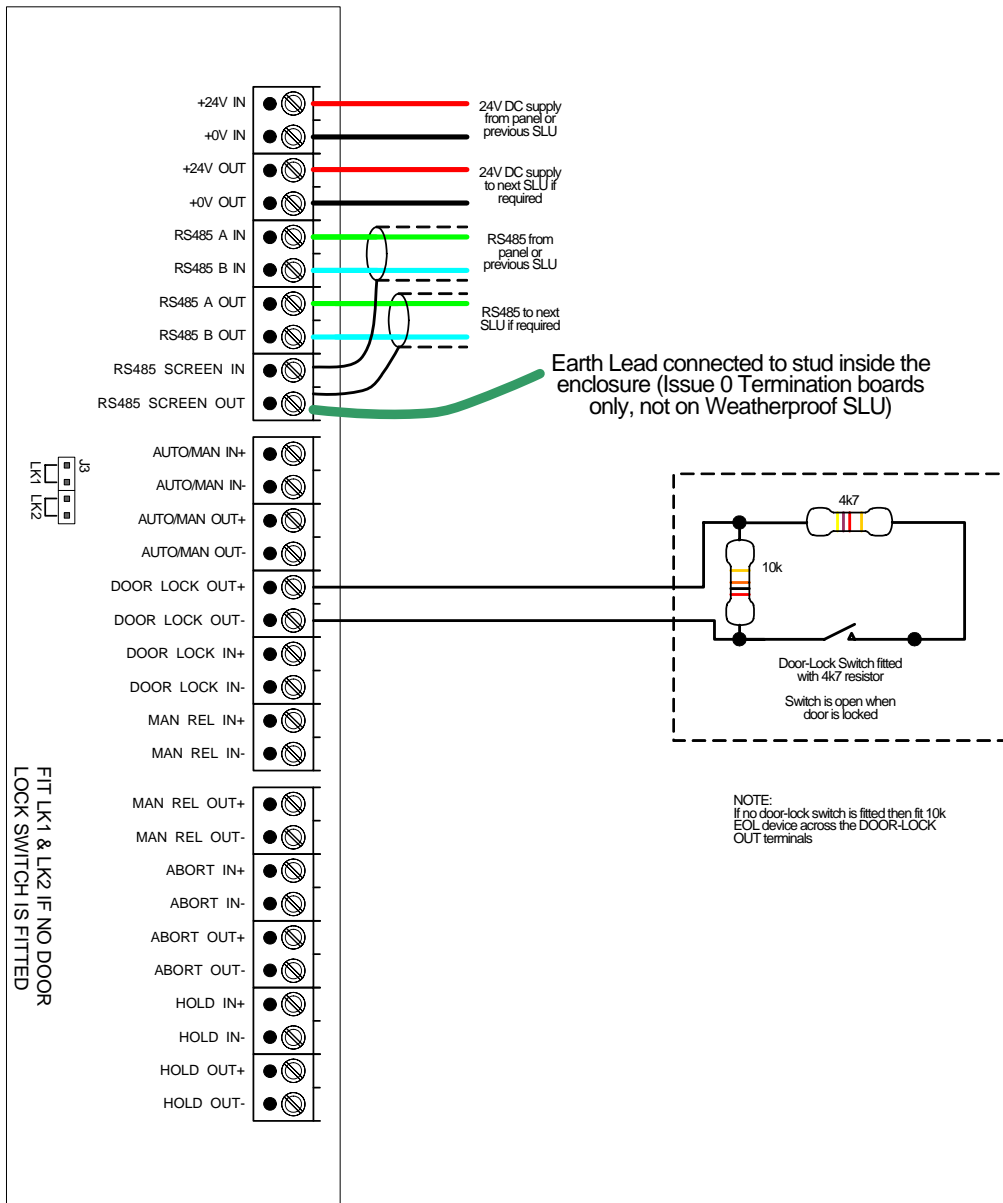


Figure 10

7 Maintenance

Check all installed SLUs for signs of damage to enclosures, cabling, switches and indicators. The weatherproof SLU should be inspected regularly to ensure that all seals are intact and that no water is getting into the enclosure.

Details of the recommended periodic functional testing can be found in the Installation, Operating and Maintenance Manual for the Prescient III [manual ref OMPRES3IN].