

**TO:** ALL 6400 Engineers  
 Technical Support  
 Sales Engineers

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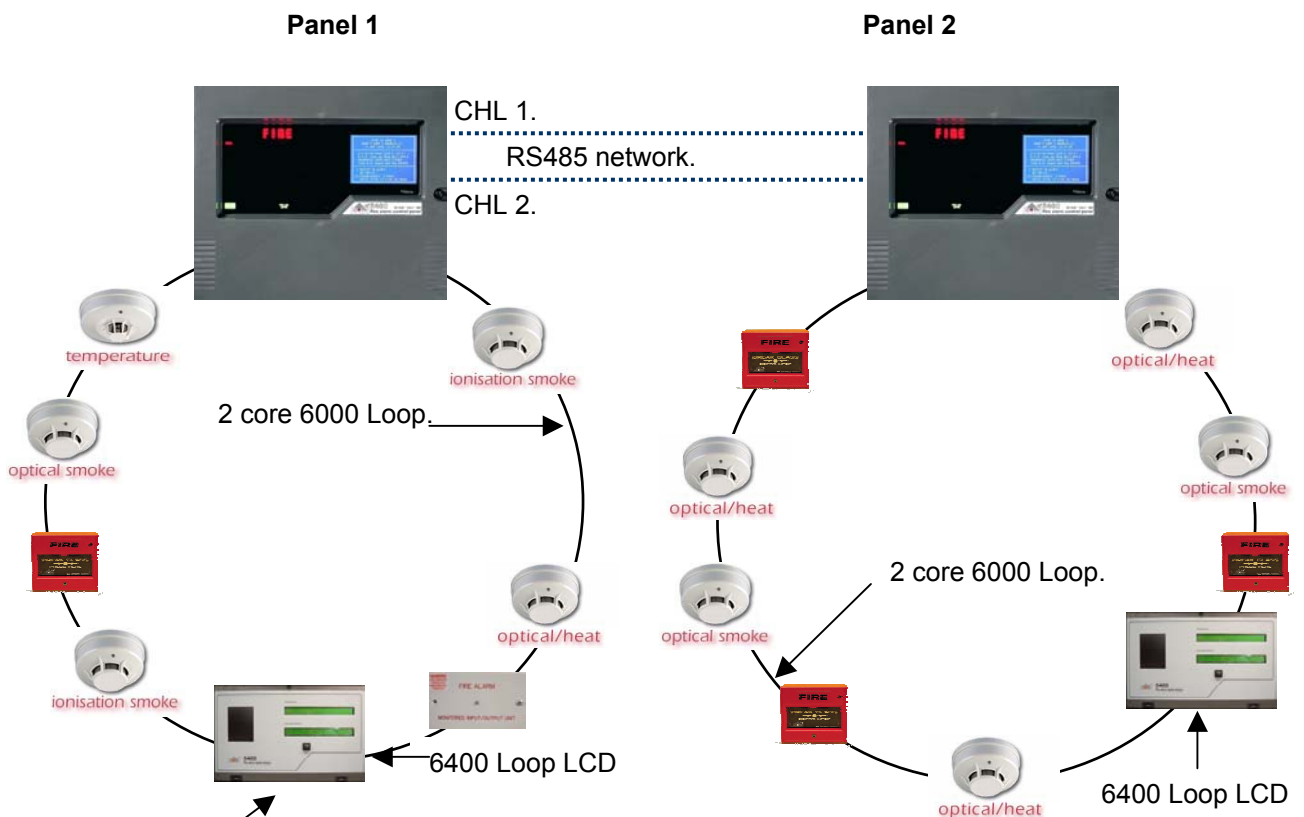
**FROM:** Gawin Davies

**SUBJECT:** 6400 Loop Powered LCD

## 6400 Loop Powered LCD

Protec fire detection has developed a new 6000 product for the 6400 control panel, the '6400 Loop LCD'. The '6400 Loop LCD' has been developed to allow a repeat LCD to be connected onto a 6000 Loop without the need to connect either a 24 volt supply or RS485 network. The LCD for use on the RS485 network will now be known as the "6400 RS485 LCD".

### Diagram 1 – 6400 Overview (with Loop powered LCD).



#### **6400 Events**

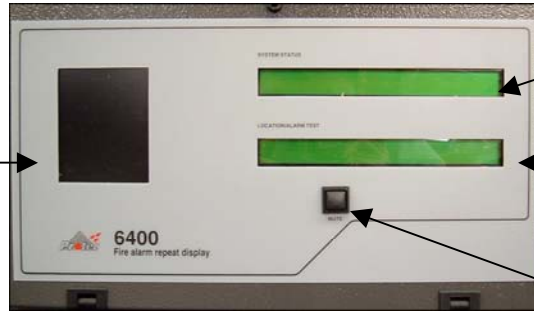
The 6400 Loop LCD will display Fires, Faults and (disabilities only via the LED not shown on the LCD) for all events on the 6400 network. The LCDs are configured for displaying all events as factory default settings.

**Diagram 2 – LCD front view.**

**LED indication.**

Three LED indications:-

- FIRE
- FAULT
- Disablement
- Power on



**LCD Display No 1**

80 Character display, for displaying Zone, Node, Loop and address information.

**LCD Display No 2**

80 Character display, for displaying device location text.

**Mute control (local)**

Control button for muting events on the LCD only.

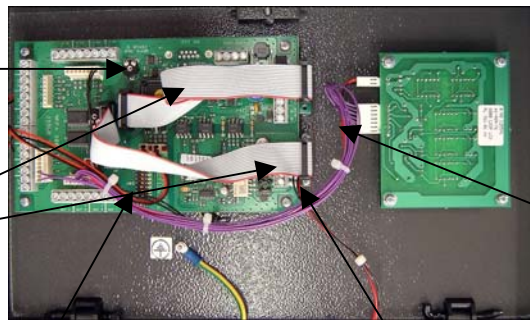
**Diagram 3 – LCD PCB view.**

**6000 Single address controller PCB.**

Main control PCB for the 'Loop LCD'

**LCD Ribbon.**

Ribbon cable connection from LCD and single address controller PCB.



**LED display PCB.**

PCB for the three LED indicators

**Interconnection.**

Connection between LED driver and single address controller.

**DIL Switch.**

DIL switch used to configure unit (see diagram 4 for more details)

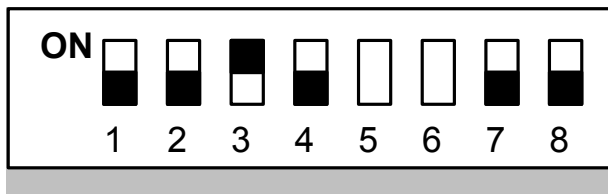
**Loop Connection**

PCB Loop terminal connections.

*(To provide easy termination a terminal block will be provided on the rear LCD back-box, rather than connecting directly onto the PCB)*

**Note** – please note that the “6400 Loop LCD” does not have all of the facilities as the “6400 RS485 LCD”. At present the “6400 Loop LCD” does not support Mimic driving, silence & reset commands, linked node or WODU configuration.

**Diagram 4 – DIL switch configuration**



**DIL Switch Settings**

- 1: Scroll
- 2: Dutch
- 3: 6400 system
- 4: Backlight disabled
- 5: Not used
- 6: Not used
- 7: Fires & Pre-Alarms only
- 8: Buzzer disabled


**Table 1.0 – Technical Specifications.**

Details	Specification
Dimensions (mm)	360w x 215h x 47d
Power supply	Loop Driven
Standby load (no events)	35mA
Alarm load	75mA
Loop address	Utilises 1 x Loop address number
Loop isolator	Fitted as standard
Loop Current	Max 600mA per Loop
Device Type	49 (Hex)

**Table 2.0 – Software Versions.**

Details	Specification
6400 Operating system	Ver 6.02-LCD +
X400 Windows software	Ver 4.16.0+
6000 Loop Driver Software	Ver 3.12+
6000 Loop LCD	Ver 12

Should you require any further technical advice regarding this subject, please contact a member of the '**Technical Support team**' on ext (01282) 717444, who will be pleased to provide you with both the necessary software and advice.



**Gawin Davies**  
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