



## Features:

- 4 line by 40 character LCD with backlight and navigation keys ▲ ▼ keys allow the **SmartTerminal** to be used for FACP operation and interrogation.
- **Note:** The backlight is only energised when alarms are present, a key has been pressed or the enable/disable key switch is enabled
- Buzzer and system Reset
- A wide range of secure user functions. This includes the ability to isolate / de-isolate a large number of system functions
- Flush or surface mountable enclosure
- Controls have tactile and audible feedback of operation
- All terminals cater for 2.5mm cables
- Stand alone power supply capabilities



## Description

**SmartTerminal** LCD Annunciator (LCDA) has been designed to display the status of the **FireFinder™** Fire Alarm Control Panel (FACP) and provide limited control of it at selected locations remote from the FACP. Communication between the two is provided by RS485 multidrop communications.

### SmartTerminal;

- front panel controls allow reset of alarms and activate or silence alarm devices.
- reports events from devices that are accessible to the host FACP. For example if the host FACP is configured with global access then the connected **SmartTerminal** reports events from all devices. If the host FACP is configured as local, then the connected **SmartTerminal** reports events from devices that are directly connected to the host FACP

There are 3 events that can be reported and displayed by the **SmartTerminal**:

1. Alarm
2. Faults, and
3. Isolates

**SmartTerminal** has front panel indicators for each reportable event. When it is configured not to report an

event and that event is present (and the corresponding front panel indicator is illuminated on the LCDA), then a standard information screen is displayed stating the system is not normal and the operator should see the FACP.

The types of events are only associated with sensors and detectors hence faults associated with modules, loops O/C – S/C, power supplies and so forth are not reported on the LCD.

## Technical

**SmartTerminal** operation essentially consists of 3 PCBs;

1. BRD82CEB2 – FACP. The Communications Extender Board is mounted inside the FACP and provides the protected RS485 communications and 27VDC to the LCDA Termination Board/s and LCD/s.
2. BRD82LTB2 – Termination Board. The Termination Board is mounted in each unit to protect and interface the RS485 communications and 27VDC supply to the unit
3. BRD82ICC2 – Control, LCD Communications and LCD Driver Board

⊕ Note: A maximum of 30 **SmartTerminals** may be connected to the communications bus over a distance of approximately 1.2Kms



## Controls

*SmartTerminal* has two levels of access.

**Access level 1** only the silence buzzer, override, previous and next front panel controls are operative.

**Access level 2** is entered when the key-switch is in the ENABLED position.



Keyswitch DISABLED



Keyswitch ENABLED

### External Bell Isolate



Press to isolate the External Bell output (LED will then illuminate).

Press again to re-enable the output (associated LED extinguishes).

*Active at access level 1 and 2.*

### Warning System Isolate

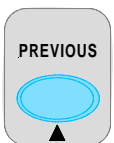


Press to isolate the Warning System output (LED illuminates).

Press again to re-enable the output (LED extinguishes).

*Active at access level 2 only.*

### Previous



#### Primary Function

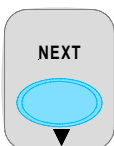
Press to display the previously displayed LCD screen

#### Secondary Function

Set LCDA address – A – (minus) decrement number

*Active at access level 1 and 2*

### Next



#### Primary Function

Press to display the next displayed LCD entry

#### Secondary Function

Set LCDA address – A + (plus) increment number

*Active at access level 1 and 2*

### Acknowledge

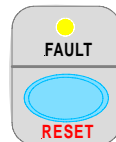


Acknowledges the alarm condition of the sensor or conventional zone that is currently displayed on the LCD.

If the key is held down for 3 seconds commences a lamp test. The Lamp Test illuminates all indicators, segments on the LCD and momentarily sounds the buzzer

*Active at access level 1 and 2.*

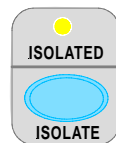
### Reset



Resets the acknowledged alarm condition of the sensor or conventional zone currently displayed on the LCD

*Active at access level 2 only.*

### Isolate



Isolates (or de-isolates) the sensor or conventional zone currently displayed on the LCD

*Active at access level 2 only*

### Buzzer

The Buzzer is activated for:

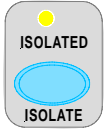
- Alarm conditions
- Devices – missing, out of calibration, wrong type, reporting an internal error
- Loops – short circuit or open circuit
- Monitored inputs and outputs on loop devices are in fault
- Sounders – missing, wrong type or reporting an internal error
- Modules within the panel – missing, wrong type or hardware error
- Main and / or secondary power supply fault

The buzzer can be silenced by pressing the Acknowledge (ACK) control locally on *SmartTerminal* or on the FACP.



## Indicators

### Isolated



Indicator is illuminated when one or more device/s or conventional zones are isolated either at the **SmartTerminal** or the FACP.

### Fault



Indicator illuminated when there is one or more faults on the system. Faults can be;

- i. Devices – missing, out of calibration, wrong type, reporting an internal error
- ii. Loops – short circuit or open circuit
- iii. Monitored inputs and outputs on loop devices
- iv. Sounders – missing, wrong type or reporting an internal error
- v. Modules within the panel – missing, wrong type or hardware error
- vi. Main and secondary supplies

### Alarm



General fire alarm indicator. The LED will flash until all alarms have been acknowledged. Once Acknowledged the LED will remain steady until all alarms have been cleared by Reset.

### Warning System



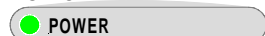
Illuminated when the Warning System output has been isolated either at the **SmartTerminal** or the FACP.

### External Bell



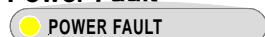
Illuminated when the External Bell output has been isolated either at the **SmartTerminal** or the FACP.

### Power



Illuminated to show the presence of power. Flashes when mains have failed.

### Power Fault



Illuminated when there is a fault with the power supply. Fault can be no mains, high charger voltage, low battery voltage or missing / damaged battery.

### System Fault



Illuminated when the FACP is unable to provide mandatory functions. Indicator is latched, until cleared by reset.

### Earth Fault



Illuminated when there is an earth fault detected on the panel.

### External Bell fault



Illuminated if the External Bell output is in fault.

### Warning System Fault



Illuminated is the Warning System output is in fault.

### ACF Fault / Isolated



Illuminated steady if the ACF output has been disabled and flashes if the ACF output is in fault (open or short circuit condition). Isolate has priority over fault.

### ASE Fault



Illuminated when the ASE output is in fault.

### Test



Illuminated when the FACP is in the test mode. Possible tests are alarm, fault, walk, lamp and loop.

### AIF Active



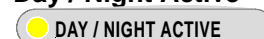
Illuminated when the AIF facility is active at the FACP.

### Pre-alarm



Illuminated when one or more devices are in the pre-alarm condition and not disabled.

### Day / Night Active



Illuminated when day / night facility has been enabled on the FACP.

### Programmable



Programmable 1 to 4. *Future use*



## Specifications

<b>Mechanical</b>	
<b>Dimensions ABS Cabinet: (mm)</b>	Surface mounted: 195H x 325W x 50D Flush mounted: 195H x 325W x 16D
<b>Package Weight</b>	2.5Kg
<b>Environmental</b>	
<b>Temperature:</b>	-5°C to + 55°C
<b>Humidity:</b>	25% to 75%
<b>Input Power</b>	
<b>Operating Voltage ( nominal ):</b>	27VDC
<b>Operating Voltage ( minimum</b>	18VDC
<b>Quiescent Current @ 26.5VDC:</b>	12.4mA (back light, off buzzer off")
<b>Maximum Current:</b>	43.8mA (back light on, buzzer on) )
<b>Cabling Requirements:</b>	2 core 1.5 to 2.5mm <sup>2</sup>
<b>Optional 27VDC Power Supply</b>	1.8A plus 400Ma Battery Charging
<b>Batteries</b>	3.2Ahr
<b>27VDC Outputs</b>	
<b>Auxiliary 27VDC Distribution Protection:</b>	27VDC 500mA Monitored
<b>Cabling Requirements:</b>	2 core 1.5 to 2.5mm <sup>2</sup>
<b>Communications</b>	
<b>Internal to FACP</b>	RS485
<b>External to FACP</b>	RS485
<b>Cabling Requirements:</b>	Twisted pair plus power
<b>Fault monitoring:</b>	O/C, S/C
<b>Maximum Number of <i>SmartTerminal</i>'s per FACP</b>	30
<b>Maximum Distance ( from FACP )</b>	1.2Km
<b>LCD</b>	4 line 40 character
<b>Item Number</b>	
4350-0003	FireFinder SmartTerminal Slimline AS4428