

## LoopSense EN54 – Intelligent Analogue Addressable Fire Control Panel

### Features

- 1 or 2 Loop Fire Alarm Control Panel
- 500mA Loop current
- 4 Programmable inputs
- 4 Programmable sounder circuits
- 3 Programmable Relays
- 2 Programmable Open Collector Outputs
- Clear back-lit 40 x 4 line LCD
- Supports a range of panel add-ons
- Integrated 32-Zone Indication LED's
- Programmable via front panel
- Removable front door
- Removable chassis (metal version only)
- Comprehensive loop monitoring and diagnostics support
- Fully EN54-2 and EN54-4 compliant

### Description

**LoopSense** is an Intelligent Analogue Addressable Fire Alarm Control Panel that is available in 1 or 2 loop options. The **LoopSense** comes packed with features designed to make it versatile, easy to install, easy to operate and easy to commission.

The **LoopSense** is suitable for small to medium sized fire detection systems and is compatible with Apollo XP95, Discovery, Xplorer and Series 90 detectors.

Programming the **LoopSense** is easily achieved via the front control panel or by using AMPAC's **LoopSense** configuration software **LoopMaster**.

**LoopMaster** is an intuitive Windows™ based software that can be installed on laptops. The laptop is easily connected to the FACP via the USB or RS232 communication ports located on the panel's main termination board.

**LoopSense** supports a range of internal and external optional Panel Add-ons.

#### Internal Panel Add-ons:

- 8-way relay board
- 8-way sounder board
- 8 Zone conventional board
- Front panel mounted printer



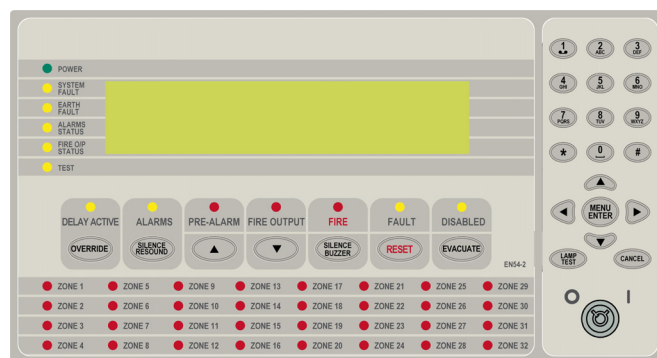
Figure 1: LoopSense Control Panel

#### External Panel Add-ons:

- **SmartTerminal** (LCD Annunciator)
- 8-way relay board

A number of communication ports are also available including:

- Parallel printer port
- Serial printer port
- PC interface port – RS232 and USB
- RS485 serial port



Assessed to ISO9001  
LPCB ref no. 952  
(AMPAC Europe)



(Head Office)

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### Additional Features

- Comprehensive Auto learn function
- Plug in key for 2nd loop enabling
- Supports up to thirty *SmartTerminal* LCDA's.
- Advanced balanced loop receive circuitry for highly effective common mode noise rejection
- Single-Ended and Redundant loop configuration capabilities
- Loop Statistics tool support for loop poll monitoring and loop noise level
- Sounder synchronisation across loops
- Walk test and silent walk test modes for zones
- Device locator LED test
- Dirty devices tool support for displaying and scrolling through dirty devices.
- Events upload via PC configuration tool. Exportable to html and can be imported into Excel spreadsheet
- Segmented log events storing a total of 1000 events in 8 separate event segments for fire, fault, pre-alarm, emergency, security, user, system, and disable events
- Day/night modes incorporating Normal, Investigation, Dependencies A, B and C and delays to outputs
- PC wizard for downloading and uploading Boot, Application and configuration files
- Support for up to 999 programmable zones
- Cause & Effect programming
- Intuitive resolve configuration wizards for extra, mismatched and missing devices

### Item Numbers (\* denotes items covered by LPCB approval)

#### Panels approved to EN54-2&4

- 8281-0105\* LoopSense 1 Loop 32Z 3A Metal  
8281-0205\* LoopSense 2 Loop 32Z 3A Metal

#### Panel other

- 8281-0106 LoopSense 1 Loop 32Z 3A Metal with printer  
8280-0206 LoopSense 2 Loop 32Z 3A Metal with printer  
8281-0101 LoopSense 1 Loop 32Z 2A ABS  
8280-0201 LoopSense 2 Loop 32Z 2A ABS

#### Panel Extras

- ENC3004-A Surround for LoopSense Metal Panels  
8210-0001\* LoopSense 2nd Loop Activation Key  
4210-0003 BX1 Recess Mounting Kit

### Panel Add-ons (Internal to Panel)

- 4310-0050 8-way Relay Board  
4310-0060 8-way Sounder Board  
4310-0082 8 Zone Conventional Board

### Panel Add-ons (external to Panel)

- 4310-0055 8-way Relay Board  
4380-0011 LoopSense SmartTerminal ABS  
4380-0012 LoopSense SmartTerminal inc PSU ABS  
4380-0013 LoopSense SmartTerminal Slimline ABS

### Specifications

	Metal Cabinet BX11 (EN54-2&4 Compliant)	ABS Cabinet BX1 (Complies with EN54-2&4)
Material	1.2mm steel	ABS Blend/High Impact
Finish/Colour	Surf Mist Ripple	Cool Grey
Dimensions(mm)	425H x 400W x 125D	300H x 360W x 100D
Weight	7kg	2.5kg
Power Supply	3A PSU version	2A PSU version
Input Voltage	204 - 264VAC	204 - 264VAC
Protection	2Amp M205	1.25Amp M205
Output Current	3Amps	1.8Amps
Charger Current	600mA	400mA
Power Supply Output Voltage:	27.5VDC +/- 0.1VDC	
Power Supply Ripple Voltage:	100mV	
Power Supply Fault - Volts High (at room temperature) Volts Low	28VDC 26.5VDC	
Charger Output Voltage:	27.5 +/- 0.1VDC	
Battery Type:	2 x 12V Sealed Lead Acid	
Maximum Battery Capacity:	17.2Ahr (Metal BX11), 7Ahr (ABS BX1)	
Battery Discharged Cut-off Voltage:	21VDC	
Quiescent Current (1 Loop panel)	115mA	
Quiescent Current (2 Loop panel)	135mA	
Loop Capacity	500mA maximum	
Max No of Detectors/Devices per Cabling Requirements	126 2 core 1.5 to 2.5mm <sup>2</sup>	
Fault supervision	O/C, S/C, Over current	
Outputs: (Programmable)	4 x 24VDC @ 500mA Max, 10K EOL	
Relay outputs (Programmable)	3 x Voltage Free - 24VDC@1A	
Open Collector (Programmable)	2 x 30mA	
Auxiliary VDC (Programmable)	2 x 24VDC @ 500mA	
Input s Programmable	4 x O/C, S/C, 10K EOL	
Comms Internal to FACP	RS485	
Comms External to FACP	RS485	
Comms Printer port	RS232 or Parallel	
Comms PC Interfacing	RS232 or USB 2.0	
Temperature	-5°C to + 40°C	
Humidity	0% to 95% (non-condensing)	

