

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



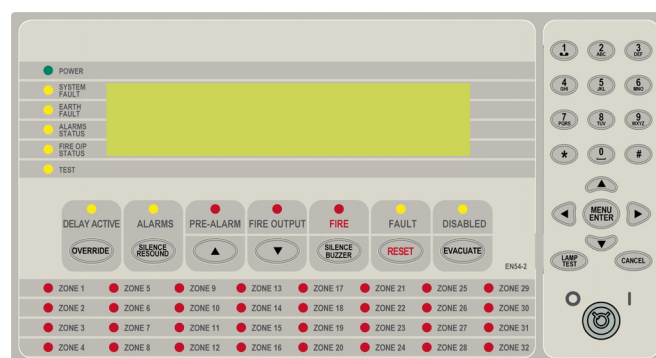
Figure 1: LoopSense Control Panel

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	28VDC	
(at room temperature) Volts Low	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	126	
Cabling Requirements	2 core 1.5 to 2.5mm ²	
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)	