

# FIRE ALARM CONTROL PANEL

## SEC3002



### Features

- LPCB and CPR approval;
- 324 addresses for one loop or 510 addresses for two loops;
- 4.3' ' color screen LCD, resolution of 480×272;
- Zone indication and control panel for 32 zones gives a quick indication of the location of an alarm;
- Record capacity of 1000 historical events with date/-time stamp.



### Description

The purpose of the SEC3002 Fire Alarm Control Panel (FACP) is to monitor input signals, give indications and possibly activate outputs as programmed. It is designed to comply with EN54-2 with qualities of simple installation, operation and easy maintenance.

The SEC3002 panel is an addressable fire detection panel with 1 loop of 324 addressable points and expansion capabilities. It is compatible with other peripherals made by Sanjiang with its own protocol.

The panel is supplied with a mental detachable exterior door, a metal front panel for operation and display, a metal back box and functional PCBs. Space is available inside the panel for the rated capacity of VRLA backup batteries, an optional communication board and additional loop board if applicable.

Commissioning is the setting to work of the panel after completion of all the installation and connection work. It includes registering and test of detectors and modules, setup of the zone indication and control panel, C&E programming and etc. All these functions are only available at access level 3

Power supply	
Mains supply	230VAC (-15%, +10%). 47 ~ 63Hz. Max current 0.8A
Mains fuse	T3.15AL250V
Operating voltage	18.5 ~ 30VDC



# FIRE ALARM CONTROL PANEL

## SEC3002



Input		
Class change (+, -)	Input mode	Passive
	Cable resistance	≤500Ω
	Recommended type of cable	Plain unscreened cable, 1.5mm <sup>2</sup>
	Cable diameter	1mm <sup>2</sup> ~ 2mm <sup>2</sup>
Loop		
Loop Out (+, -) Loop In (+, -)	Output voltage	16.5 ~ 30VDC, pulse
	Output current	0 ~ 0.3A
	Loop type	Class A
	Recommended type of cable	Unscreened twisted-pair, 1.5mm <sup>2</sup>
	Transmission distance	≤1000m
	Cable diameter	1mm <sup>2</sup> ~ 2mm <sup>2</sup>
Network communication		
RS-485	Max. number of FIPs	30
	Transmission rate	9600 bps
	Recommended type of cable	Unscreened twisted-pair, 1mm <sup>2</sup>
	Transmission distance	≤1000m
	Cable diameter	1mm <sup>2</sup> ~ 5mm <sup>2</sup>
CAN	Max. number of panels	60
	Transmission rate	Optional: 10K, 20K, 50K and 100K bps
	Recommended type of cable	Unscreened twisted-pair, 1mm <sup>2</sup>
	Transmission distance	≤1000m
	Cable diameter	1mm <sup>2</sup> ~ 5mm <sup>2</sup>
Physical dimensions		
Approx. Dimensions of the panel (W×H×D)		430×560×170mm
Approx. weight (without battery)		14kg
Operating conditions		
Temperature range: 0°C~ 45°C; Max relative humidity: 95% (40°C ± 2°C, no condensation)		



FIRE ALARM CONTROL PANEL  
SEC3002



Recommended mains cable		Standard/black mains cable, cable size 0.75mm2
Power rating		I <sub>max.a</sub> =1.2A; I <sub>max.b</sub> =2.6A; I <sub>min</sub> =0.65A
Max. charging current		1.2A
Max. battery supply current		4A (when the Mains is disconnected)
Battery capacity, type and recommended model		Max. capacity 2×12V/17Ah; Min. capacity 2×12V/12Ah VRLA. PS-12170 for 17Ah (Power-sonic), PS12120 for 12Ah (Power-sonic)
Max. internal resistance of battery		1.5Ω
Battery fuse		F8AL250V
Recommended battery cable		14AWG
Quiescent current (full loaded)		< 0.4A
Outputs		
S.C. Out (+, -)	Output voltage	18.5 ~ 30VDC
	Max. output current	0.5A
	Fuse rating	F1AL250V
	End of line resistor	4K7
	Recommended type of cable	Plain unscreened cable, 1.5mm2
	Cable diameter	1mm2 ~ 2mm2
	Transmission distance	≤1500m
	Max. number of sounders @50mA	20
F.P.E. Out (+, -) F.A. Out (+, -)	Output voltage	18.5 ~ 30VDC
	Max. output current	0.5A
	Fuse rating	F1AL250V
	End of line resistor	4K7
	Recommended type of cable	Plain unscreened cable, 1.5mm2
	Cable diameter	1mm2 ~ 2mm2
	Transmission distance	≤1500m
Fault Out (NC, COM, NO)	Contact capacity	30VDC@2A, 125VAC@0.5A
	Recommended type of cable	Plain unscreened cable, 1.5mm2
	Cable diameter	1mm2 ~ 2mm2
24VK (+, -)	Output voltage	18.5 ~ 30VDC
	Max. output current	0.6A
	Fuse rating	F1AL250V
	Recommended type of cable	Plain unscreened cable, 1.5mm2
	Cable diameter	1mm2 ~ 2mm2