

Agent Release Panel

SSE-25AR

Product Overview

RE-25AR Agent Release Panel fully complies with UL-864 and NFPA-72. While implementing the latest in microprocessor technology for conventional panels ease to operate along with clear visible indications come at an advantage for the end user. These panel are a feature packed control unit performing dual function of detection and controlled release of gaseous agent. These panels have 4 detection circuits and 2 agent release circuit with various programmable options. The panel have all the safety features to prevent accidental release, easy to install, commission with user friendly programmable option, this panel is ideal choice to protect the premises.

Features:

- 16x2 Dot Matrix LCD Display.
- Operates on 120-220v 60 / 50 Hz, AC Mains power supply.
- 4 Class B initiating device circuit (IDC).
- All zones accept smoke detectors and any normally open contact device.
- Any Zone can be configured as Alarm or supervisory Zone.
- 2 Class B Releasing Agent Circuits (RAC).
- 2 Class B Notification Appliance Circuits (NAC).
- Standby (battery) backup 24v DC power supply with built in charger
- Main, Standby status audio visual indication.
- Battery Low audio visual warning tone.
- 3 Form C programmable relays for Fire / fault / supervisory / Gas Released.
- Two modes of operations Auto / Manual.
- Programmable 24v D.C Outputs.
- RS 485 Communication facility (Optional).
- 200 Events history log with RTC.
- Walk Test facility.
- Zone Isolation facility with voltage cutt off.
- Earth fault annunciation facility.
- All field wiring circuits are Power limited except 220v AC and Battery.

- All field wiring circuits are supervised.
- AC Low voltage cutoff.
- Programmable RAC's with count down timer.
- Programmable AC loss delay
- Programmable Trouble remainder.

Special Features:

- Synergy Indian Manufacturer, International standard.
- UL Listed (9th Edition).
- Switch Mode Power Supply.
- Modular Construction, Serviceable.
- Special logic circuitry to prevent accident release.
- Auto Resettable Fuse.
- Surge Protected.
- Battery polarity & deep discharge protection.

NAC's Output:

- Variable solenoid ON / OFF time.
- 4 No's of programmable Initiating Device Circuit and 2 No's of Releasing Agent circuit, with the independent correlation of any no of initiating devices circuit with any one of Release Agent Circuit.
- 4 No's Programmable (Fire, Cross Zone & Gas Release) relays for integration of third party system
- Separate LED indications on front facia for individual Releasing Agent Circuit.



Note: Actual product may different in colour

Electrical Specification

Primary Power (RE-SMPS-4A-R1)
120 - 220VAC \pm 10%, 50 Hz, 2.5Amps.

Standby Power
24v D.C (2 Nos of 12v, 12Ah Sealed Lead acid battery).
Quiescent current : 120 mA.

Operating Condition
Operating Temperature 0 - 49° C / 32-120° F.
Relative Humidity 93 \pm 2% RH (non-condensing) at 32 \pm 2° C / 90 \pm 3° F.

Charging Circuit
Charging Voltage : 28.0V, \pm 0.2V
Charging current : 800mA (Max).

D.C. Output Power
Supervised 24VDC regulated, 300mA.

Common Relays
Type : Form C
No of Relays : 3
Relay Contact Rating: 2 Amps @ 30 VDC

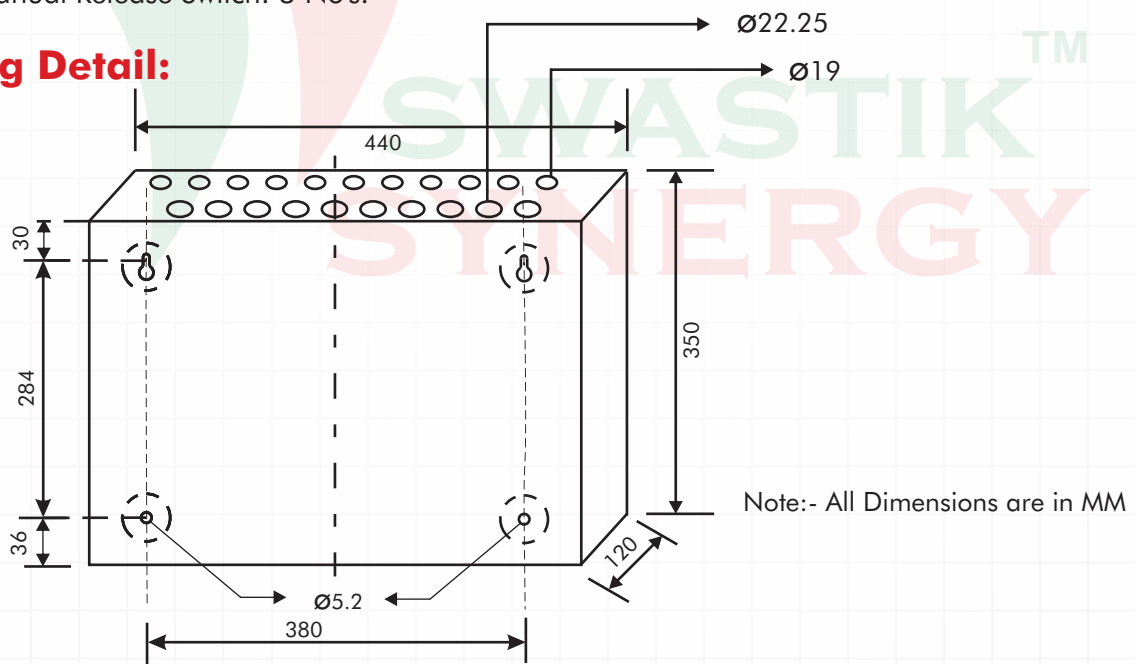
Programmable Input circuits
No. of Inputs: 4
Normal Operating Voltage: 8 - 12 VDC.
Short Circuit Current: 5mA Maximum.
Loop resistance: 100 ohms Maximum.
End-Of-Line Resistor: 3K9, 1/2watt
Standby Current: 2.5mA
Maximum Manual Release Switch: 3 No's.

Initiating Device Circuits
All Zones are Class B Style B/C operation (Programmable).
Normal Operating Voltage: 14 - 21 VDC.
Alarm Current : 15 - 30mA.
Short Circuit Current : 45mA Maximum.
Loop resistance : 100 ohms Maximum.
End-Of-Line Resistor : 3K9, 1/2watt
Standby Current : 7mA (2mA for Detectors)

Notification Appliance Circuits
Class B, Style - Y wiring
No of circuits : 2
Operating Voltage: 24VDC Nominal
Current : 0.6A per circuit
Line Drop : 1.8V
End-Of-Line Resistor: 3K9, 1/2watt

Releasing Agent Circuits
Class B, Style - Y wiring
No of circuits : 2
Operating Voltage: 24VDC Nominal
Current : 0.6A per circuit
Line Drop : 1.8V
End-Of-Line Resistor: 3K9, 1/2watt

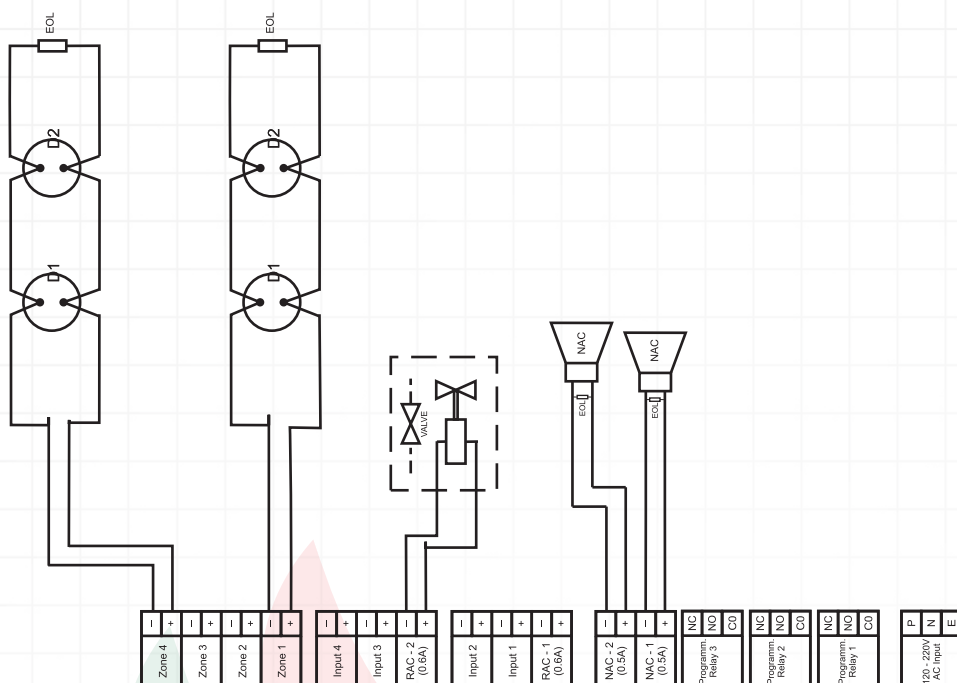
Mounting Detail:



Mechanical Specification:

Dimensions : (440W X 350H X 120D)
Color : Red / White
Construction : 18 Gauge (1.22mm) CRCA sheet with powder-coated Finish
IP Rating : IP50
Cable Entry : 11x ϕ 19mm Knockout in top of the cabinet
10x ϕ 22.25mm Knockout in top of the cabinet

Wiring Diagram:



Note:

D1, D2 - Two wire detectors
 EOL - End Of Line Resistor
 NAC - Notification Alarm Circuit

Initiating Device Circuit
 IDC's are 1 to 8, Class B Style B/C
 End of Line - 3K9 1/2W
 PN: RE3K9

- All the field wiring circuits are supervised.
- All the field wiring circuits are Power limited except 120-220v A.C and Battery.

Compatible Devices:

MODELS	DESCRIPTION
11591NC	Solenoid Valve
RE-3K9	End Of Line Resistor

Ordering Information:

MODELS	DESCRIPTION
SSE-25AR-W	4 ZONE Gas Release Panel (White Color)
SSE-25AR-R	4 ZONE Gas Release Panel (Red Color)

Agent Release Panel

SSE-120GR

Product Overview

SSE-120GR is a microprocessor based Agent Release Panel. These panel are a feature packed control unit performing dual function of detection and controlled release of gaseous agent. These panels have 2 detection circuits and 1 agent release circuit with various programmable options. The panel have all the safety features to prevent accidental release, easy to install, commission with user friendly programmable option, this panel is ideal choice to protect the premises.

Features:

- Operates on 220V, A.C supply
- Battery backup with built in charging.
- 16 X 2 LCD Dot Matrix Display.
- Evacuate and Key pad Enable, Disable Facility.
- Low battery visual warning with audible tone.
- Relay output for actuators.
- Provision for Remote fire with Audio / Visual Indications.
- Compatible to all types of conventional detectors.
- Zone Disable (Isolation) facility with loop voltage cut off.
- Resettable 24v DC output for 4 wire detectors.
- Three 24V Sounder Output (Fire, after Cross zone, after gas release).
- Two mode operation facility (Auto / Manual).
- Programmable Solenoid Output with ON and OFF Timer.
- Programmable Main / Standby Cylinder output Facility.
- Gas Inhibit and Instant release facility.
- Manual Gas Release with or without timer.
- Actuator pressure low sensing facility.
- RS 485 Output for Repeater.

Special Features:

- Synergy Indian Manufacturer, International standard.
- Modular Construction, Serviceable.
- Special logic circuitry to prevent accident release.
- Auto Resettable Fuse.
- Surge Protected.
- Battery polarity & deep discharge protection.

NAC's Output:

- Variable solenoid ON / OFF time.
- 2 No's of programmable Initiating Device Circuit and 1 No's of Releasing Agent circuit.



Note: Actual product may differ in colour

Electrical Specification

Power
 220-240 VAC, 50 Hz.
 Wire size: 1.5 Sq. mm with 600V insulation

Battery (Lead Acid only)

Charging Voltage : 28 VDC.
 Charging Current : 0.5 Amps (Max)
 System Quiescent Current : 80mA

Initiating Device Circuits (Zone Circuit)

All zones are Class B wiring
 Normal Operating Voltage 14 - 21 VDC
 Alarm Current : 15 - 30mA
 Short Circuit Current : 40mA Maximum
 Loop resistance : 50 ohms Maximum
 End-Of-Line Resistor : 4.7K, 1/4watt
 Standby Current : 6.8mA
 (2.4mA for Detectors)

Notification Appliance Circuits (Sounder / Strobe Circuit)

- 1) Supervised
 Operating Nominal Voltage : 24 VDC
 Operating Current : 0.75A (Max)
 End-Of-Line Resistor : 4.7K, 1/4watt
- 2) Non - Supervised
 Operating Nominal Voltage : 24 VDC
 Operating Current : 0.3A (Max)
 End-Of-Line Resistor : 4.7K, 1/4watt

Releasing Agent Circuit

Operating Nominal Voltage : 24 VDC
 Solenoid output : 0.75A
 End-Of-Line Resistor : 4.7K, 1/4watt (for Solenoid Output)

Remote Outputs

Fire Contact (C, NO, NC) : 220v AC/30v DC@ 1A
 Fault Contact (C, NO, NC) : 220v AC/30v DC@ 1A
 Cross Zoning Contact(C, NO, NC) : 220v AC/30vDC@1A

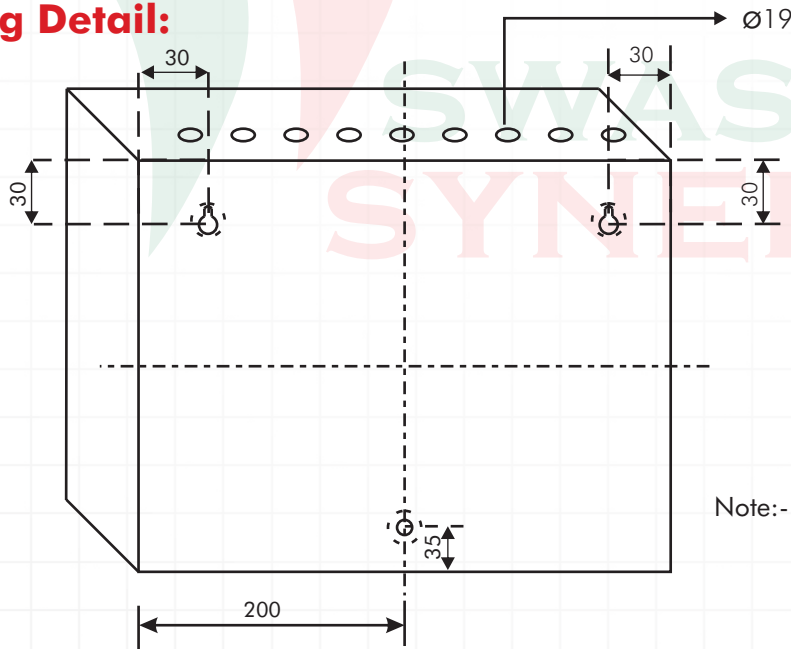
24 VDC Power For remote devices (Optional)

Operating Voltage : 24VDC, 500mA Max.

Operating Condition

Operating Temperature 0 - 49° C / 32-120° F.
 Relative Humidity 93 ± 2% RH (non-condensing) at 32 ± 2° C / 90 ± 3° F.

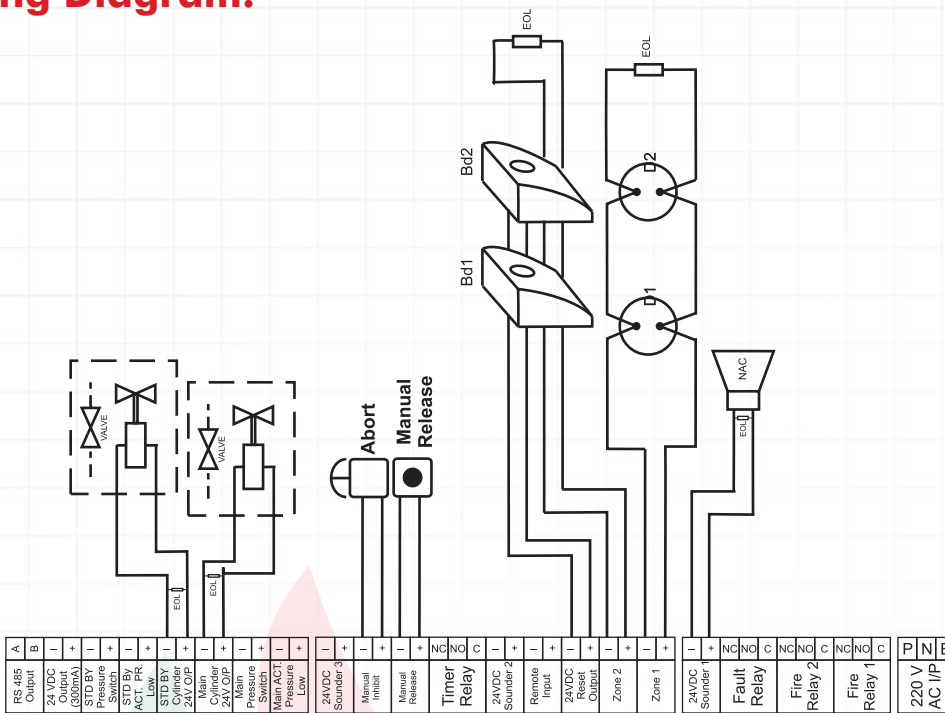
Mounting Detail:



Mechanical Specification:

Dimensions : (400W X 300H X 100D)
 Color : Red / White
 Construction : 18 Gauge (1.22mm) CRCA sheet with powder-coated Finish
 IP Rating : IP50
 Cable Entry : 09 x Ø19mm Knockout in top of the cabinet

Wiring Diagram:



Note:

- D1,D2 - Two wire detectors
 - Bd1, Bd2 - Four wire detectors.
 - EOL - End Of Line Resistor
 - NAC - Notification Alarm Circuit (Sounder)
 - IDC - Initiating Device Circuit (Zone)
- Initiating Device Circuit
IDC's are 1 & 2, Class B StyleB/C
End of Line - 4K7 1/2W

- All the field wiring circuits are supervised.
- All the field wiring circuits are Power limited except 220v A.C and Battery.

Compatible Devices:

MODELS	DESCRIPTION
RE-Monitor	24VDC Output for Monitor Module
RE-4K7	End Of Line Resistor

Ordering Information:

MODELS	DESCRIPTION
SSE-120GR-W	2 ZONE Gas Release Panel
SSE-120GR-R	2 ZONE Gas Release Panel

Note: R- Red Color; W-White Color