

# NEXGR

## AGENT RELEASE PANEL



### OVERVIEW

NEXGR panel prevent the spread of fire, protects sensitive equipment, and ensures the safety of the people in the area by quickly suppressing the flames without the use of water, which could damage electronics or other vulnerable items.



### FEATURES

- 2 zone capacity
- Programmable remote input.
- Battery backup with built in charging.
- Relay output for actuators.
- Relay output for Fire and Fault event.
- Compatible to all types of conventional detectors.
- Auto and manual mode features.
- Internal buzzer
- Zone indication LED.
- Mean well power supply (SMPS)
- Operates on 120 - 220v 60 / 50 Hz, AC Mains power supply

### ELECTRICAL SPECIFICATION

Operating Voltage	120-220v AC, 60/50HZ
Battery Voltage	12V DC

### ENVIRONMENTAL SPECIFICATIONS

Operation temperature	0°C To + 65°C
Humidity	5% To 95% R.H. Non-Condensing





MECHANICAL INFORMATION	
Color	Main Panel (Grey textured wall)
Housing	CRC Sheet, Power Coating
Mounting Holes	2 Holes at the back side of Panel Box

## CONTROL & INDICATIONS

### KEYPAD

- Silence - Red color:- During fire / Evacuate condition this key is used to silent the External Hooter and Internal buzzer
- Reset – Yellow color: - To reset the entire panel but in normal mode Zones are not reset
- Evacuate: - To Activate the Hooter
- Right: - To move the Menu
- Left: - To move the Manu list and toggle the menu options
- Enter: -To Accepts the edited Manu values
- Menu: -To enter into the main menu in the LCD.
- GAS Release: - The key is used to bypass the timer and it causes solenoid output on immediately. This key can be used only in cross zone condition or whenever the timer on LED is glowing.
- GAS Inhibit: - This key is used to activate Gas Inhibition. This selection can identify by the Gas Inhibit LED. The same key is used to bring back to normal condition.

### KEY SWITCH

- Enable
- Disable
- Evacuate

### COMMON INDICATION

- System ON – Green : - To be indicate the panel power on status.
- Mains ON – Green : - To be indicate the panel AC power on status.
- Battery ON – Green :- To be indicate the panel running in Battery mode.  
Mains fail condition only it will be turned on.
- Earth fault – Yellow: -To be Initiating zone circuits and hooter circuits are gets contact with the Earth or Body of the cabinet
- Common fault – Yellow : - To be indicate the mains fail, battery fail, charger fail,
- Hooter fault : - To be indicate the Hooter fault status like open or short



## SWITCH INDICATION

- Silence – Yellow : - To be indicate the panel silence in panel fire/Evacuate condition
- Reset – Green : - When the Reset key is pressed, after entering user or admin password, the control panel will:
  - A)Turn off the Hooter.
  - B)Restore all system relays to normal.
- Restore overall system.
- Evacuate – Yellow : - This key is used to energize the all-external hooters without actual fire, It will operate at user or admin level. Using the silence key Hooter output can be silenced.

## GAS RELEASE INDICATION

- Solenoid fault - Yellow
- Remote fire – Yellow : - To be indicate the remote fire status which is detected from other FACP or MCB
- Remote Release – Yellow : - To be indicate the remote release input status (with Buzzer continues tone )
- Gas Release – Yellow : - To be indicate the solenoid activate status
- Timer – Yellow : - To be indicate the timer ON status
- Gas Inhibit – Yellow : - To be indicate the solenoid deactivation in timer ON condition
- Manual release – Yellow : - To be indicate the remote release activation
- Auto mode – Yellow : - To be indicate the panel in auto mode status
- Manual mode – Yellow : - To be indicate the panel in auto mode status

## ZONE INDICATION

1. Zone1 Fire - Red
2. Zone2 Fire - Red
3. Zone 1 Open - Yellow
4. Zone2 Open- Yellow
5. Zone1 Short - Yellow
6. Zone 2 short - Yellow
7. Zone1 Disable – Yellow
8. Zone 2 Disable – Yellow





## INTERNAL BUZZER

a. Continuous tone

i. Alarm,

ii. Timer ON,

iii. Remote Fire,

iv. Remote Release

v. Evacuate,

vi. Gas Released

b. Pulse tone

i. Fault – 1sec ON / 0.5 sec OFF

## INPUT CIRCUITS

### Zone

The control panel has 2 zone input circuits. All field wiring of each zone is supervised for open and short faults.

### Remote fire

This Input is used to give alarm due to the emergency alert given by the other control panels or some other device using the contacts of that panel or devices. This Input is kept normally open, whenever the input changes to normally close; the FAP gives the Remote Fire Indication with continuous buzzer tone and external sounders. This input is also used as remote access like silence and evacuate.

### Manual Release

The External Release switch (MCP or pull station) is connected with this terminal. This switch is kept in the field wherever required. It causes Manual Mode Gas Release. It will energize the Solenoid Output.

### Manual Inhibit

The External Gas Inhibit switch (MCP or pull station) is connected with this terminal. This switch is kept in the field wherever required. It causes Manual Mode Gas Inhibition. It will bypass Timer and Solenoid Output.

### Pressure Switch

This input terminal is used to identify the Actuator Pressure status of the cylinder. If Actuator Pressure Low found, Actuator Pressure Low LED will glow until it becomes normal.

### Actuator Pressure Low Switch

The pressure switch present in the cylinder is connected with this terminal. When the gas is discharged due to over pressure or gets triggered by the Gas release panel the switch position is changed. This change is sensed in the gas release module and gas discharged LED will glow with relay contact and continuous buzzer tone.





## OUTPUT CIRCUITS

### 1. Solenoid Output

Main solenoid contact

Standby solenoid contact

### 2. Hooter

Hooter 1

Fire / Evacuate Condition.

Hooter 2

Cross Zone Condition (Timer ON).

Hooter 3

Solenoid Activated (Gas Released).

### 3. Relay contact

Tow fire relay contact

One fault relay contact

Prog relay contact

### Disclaimer

This document is just for a general overview & is not intended to be used for installation purpose. Data contained in documentation should be consulted with a fire-safety professional before specifying or using the product. All the specification are subject to change without prior notice.



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Mail us for more info  
[Info@verbenalimited.com](mailto:Info@verbenalimited.com)



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