



## BISHTECH GAS RELEASE PANEL

Model Name: ADVIK

### Product Overview

Bisotech ADVIK is a microprocessor-based Gas Release Panel designed for fire detection and automatic gas suppression control systems. The panel supports cross-zoning technology for reliable fire verification and safe gas discharge operation. It provides both Automatic and Manual release modes with programmable delay timing for enhanced safety.

The system is suitable for any type gas fire suppression systems used in server rooms, electrical panels, control rooms, and data centers.

### Special Features

- Powder Coated Cabinet
- Modular Constructions, Serviceable
- Battery polarity & deep discharge protection
- LED & LCD Dual Display for Clear Indication
- 16 X 2 LCD Dot Matrix Display
- Zone Disable (Isolation) facility with loop voltage cut off.

### Features

- Microprocessor controlled Gas Release Panel
- 2 Detection Zones with Cross Zoning
- Automatic & Manual Gas Release Operation
- Adjustable Gas Release Delay Timer
- LCD Display for Timer Indication
- Battery Charging Monitoring
- Main Supply Monitoring
- Zone Open & Short Circuit Monitoring
- Gas Released Status Indication
- Low Battery Indication
- External Sounder Silence Facility
- Auto Mode / Manual Mode Selection
- Compatible with Conventional Detectors & MCP
- Relay Output for Solenoid Valve
- Rugged Metal Enclosure with Powder Coating



### Front Panel Indicators

Indicator	Description
MAINS ON	Indicates AC mains supply present
SYSTEM ON	System healthy condition
CHARGING ON	Battery charging status
FIRE	Common fire indication
ZONE ON	Zone active indication
OPEN	Zone line open fault
SHORT	Zone line short circuit fault
ZONE FIRE	Fire detected in corresponding zone
AUTO MODE	Gas release relay in Auto Mode
GAS RELEASED	Gas discharge activated
LOW BATTERY	Battery low indication
SILENCE	External hooter silenced



### Front Panel Control Switches

Switch	Function
RESET	Restart system to normal condition
LAMP TEST	Check all Zone LED indications
SILENCE	Silence hooter & buzzer
ALARM	Alarm test switch
ENTER	Programming confirmation
TIME INCREASE	Increase gas delay timer
TIME DECREASE	Decrease gas delay timer
RED DIP SWITCH	To isolate the zone

### Programming Steps

1. Press and hold the **SILENCE** button until buzzer beeps.
2. Press **ALARM** button once to enter programming mode.
3. Press **SILENCE** button again.
4. LCD will display gas release delay timer.
5. Press lower **ALARM** button to increase delay time.
6. Press upper **LAMP** button to decrease delay time.
7. Press **SILENCE** button once to save settings.

### Operating Principle

#### Automatic Mode

When both zones detect fire condition, the panel activates the delay timer and releases gas after completion of the programmed delay (default timer delay 45 second).

#### Manual Mode

Pressing the Manual Release switch activates the timer and releases gas after the configured delay time (default timer delay 10 second).

### Technical Specifications

Parameter	Specification
Operating Voltage	: 220V AC, 50Hz
Standby Voltage	: 24V DC
Detection Zones	: 2 Zone
Release Output	: 24V DC
Operating Temperature	: 0°C to 50°C
Humidity	: 95% Non-condensing
Hooter Output	: 24V DC
Battery Backup	: Inbuilt Charger Supported
Enclosure	: Powder Coated CRCA Metal





### Primary Power:-

120 / 220VAC + 10% -15%, 60 / 50 Hz. 40W

### Stand by Power: -

24VDC (2 Nos of 12V, 7Ah Sealed Lead acid battery).

Quiescent current: 55mA

### Common Relays: -

Type	: Contact Form 1C
No of Relays	: 4
Relay Contact Rating	: 10Amps @ 28 VDC
	: 10Amps @125VAC.
Power Factor Rating	: 1.0

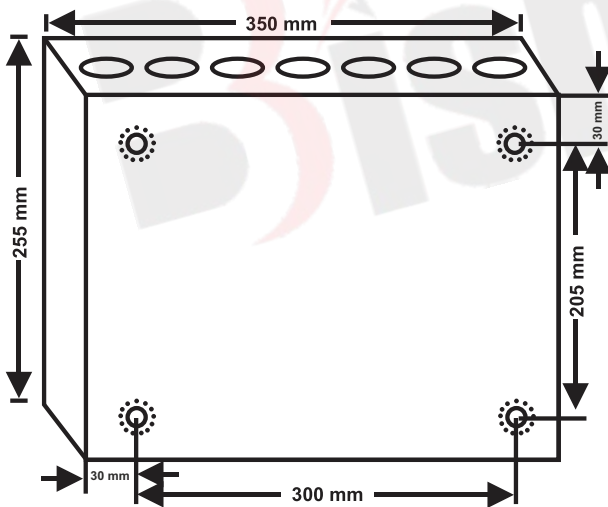
### Operating Condition

Operating Temperature	: - 0 - 55° C/32-120° F.
Storage Temperature	: - 0° to 60° C
Relative Humidity	: - 93 ± 2% RH (non- condensing) at 32 ±2° C/90 ±3° F.

### Initiation Device Circuits (Zone Circuit)

Normal Operating Voltage	: 14- 21 VDC
Alarm Current	: 15 - 30mA
Short Circuit Current	: 42mA Maximum
Loop resistance	: 50 ohms Maximum
End-Of-Line Resistor	: 4.7K, 1/4watt
Stand by Current	: 6.8mA
	(2.4mA for Detectors)

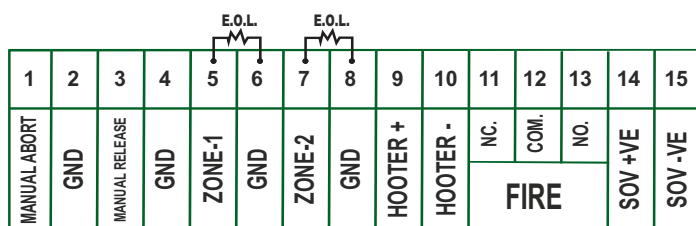
### Mounting detail



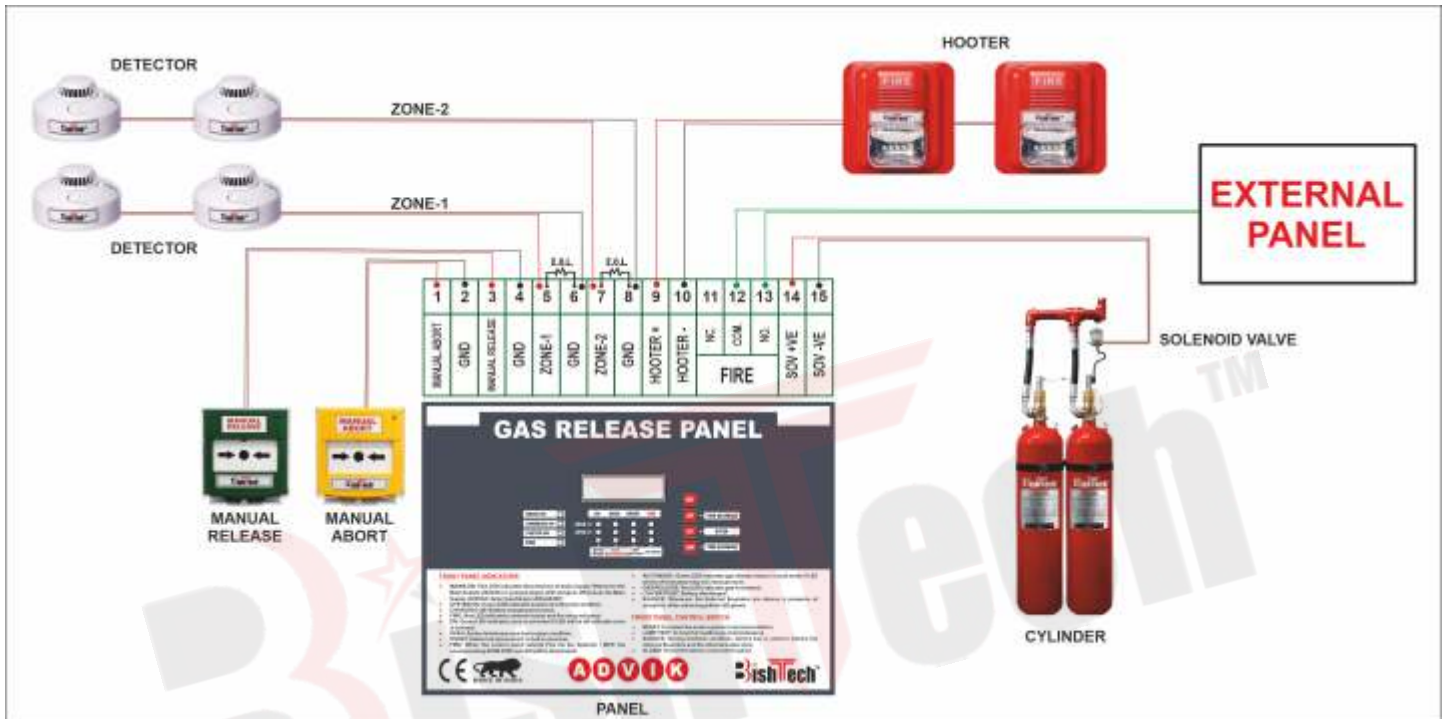
### Mechanical Specification

Dimensions	: (350L X 255H X 95D) in mm
Colour	: Off white
Constructio	: 20 Gauge (1mm) CRCA sheet with powder-coated finish
IP Rating	: IP50
Cable Entry	: 7x19mm Knockout on top of the cabinet
Weight	: 3.600 Kg (without Packaging)

### Wiring Diagram



## Schematic Diagram



## Ordering Information

Model	Description
ADVIK	2 Zone Gas Release Panel