



## Bisotech Kitchen Fire Suppression Panel

Model Name: ADVIK

### Product Overview

Bisotech Kitchen Fire Suppression Panel is a microprocessor-based fire suppression control panel specially designed for commercial kitchen protection systems. The panel detects fire conditions and activates automatic suppression release systems for kitchen hood, duct, and appliance protection.

The system supports automatic and manual release operation with intelligent monitoring and programmable discharge delay for enhanced kitchen safety applications.

### Special Features

1. Powder Coated Cabinet.
2. Modular Constructions, Serviceable.
3. Surface Mount Technology.
4. Battery polarity & deep discharge protection.
5. Fuse Protection for AC 230V, Battery, Motherboard.

### Features

- Microprocessor based suppression control panel
- Automatic and Manual suppression release
- 2 Zone for LHS cable
- Programmable discharge delay timer
- LCD / Digital timer display
- System ON, Fire & Fault indications
- Main Supply and Battery monitoring
- Battery backup with inbuilt charger
- Gas / Agent release indication
- Sounder silence facility
- Manual release & abort operation
- Solenoid line monitoring
- Zone open and short circuit protection
- Compatible with conventional detectors
- Rugged powder-coated CRCA enclosure



### Front Panel Indicators

Indicator	Description
MAINS ON	AC power supply available
SYSTEM ON	Panel healthy condition
CHARGING ON	Battery charging status
FIRE	Common fire indication
ZONE ON	Zone active indication
ZONE FIRE	Fire detected in respective zone
AUTO MODE	System operating in Auto Mode
RELEASED	Suppression agent discharged
LOW BATTERY	Battery low condition
SILENCE	Hooter silenced



## Front Panel Control Switches

Switch	Function
RESET	Reset complete system
LAMP TEST	Test all LEDs
SILENCE	Silence buzzer and hooter
ALARM	Alarm test function
ENTER	Programming save key
TIME INCREASE	Increase discharge delay
TIME DECREASE	Decrease discharge delay

## Programming Steps

- Press and hold the SILENCE button until buzzer beeps.
- Press ALARM button once to enter programming mode.
- Press SILENCE button again.
- Display will show discharge delay timer.
- Press lower ALARM button to increase delay time.
- Press upper LAMP button to decrease delay time.
- Press SILENCE button once to save settings.

## Operating Principle

### Automatic Mode

When fire detectors installed in kitchen hood/duct area detect fire, the panel activates suppression release after completion of preset delay time.

### Manual Mode

Pressing the Manual Release switch activates the suppression release sequence manually.

## Technical Specifications

Parameter	Specification
Input Supply	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	Supported
Enclosure	CRCA Powder Coated



**GeM**  
Government  
e Marketplace





### 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

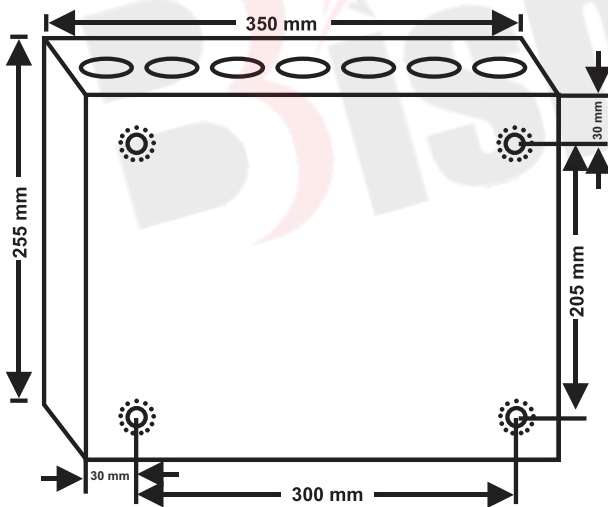
### Operating Condition

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)

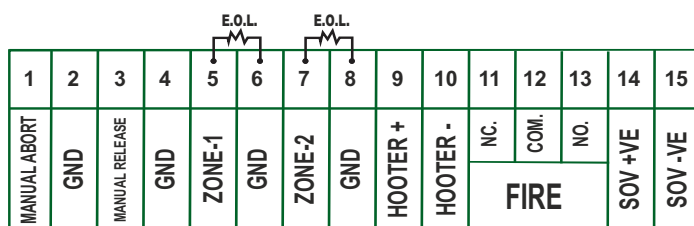
### Mounting detail



### Mechanical Specification

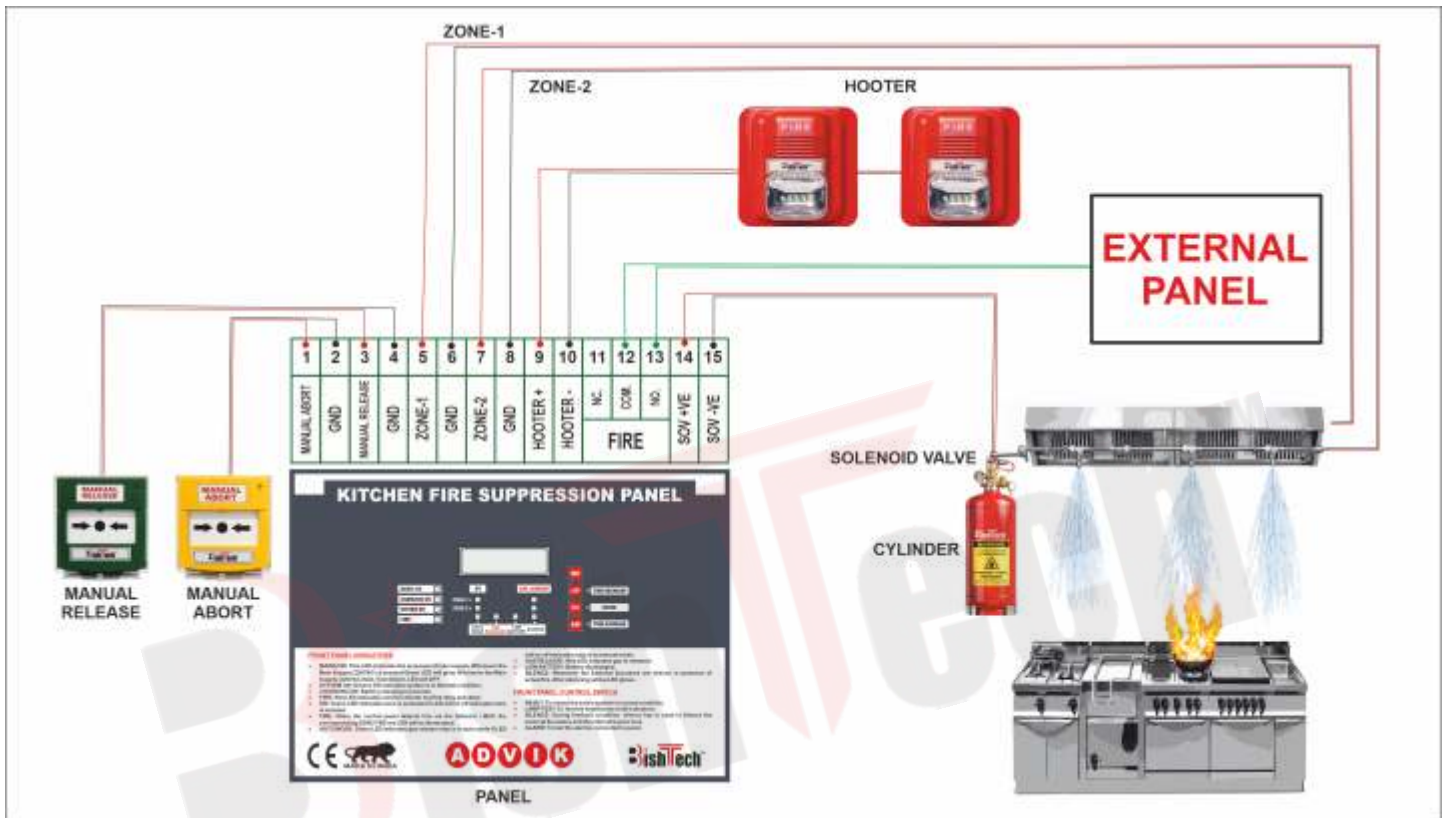
Dimensions	: (350L X 255H X 95D) in mm
Colour	: Off white
Constructio	: 20 Gauge (1mm) CRCA sheet with powder-coated finish
IP Rating	: IP50
Cable Entry	: 7x19mm Knockout on top of the cabinet
Weight	: 3.600 Kg (without Packaging)

### Wiring Diagram





## Schematic Diagram



## Ordering Information

Model	Description
ADVIK	2 Zone Kitchen Fire Suppression Panel