Fire Alarm Control Panel

Orion Series

The Orion series of Microprocessor based fire alarm panels provides a reliable and cost effective solutions to fire detection, from small to large size installations which have 2, 4, 6, 8 & could go up to 60 zones of selecting models and features. These units have been designed to offer high standards of performance, reliability and quality and comply with IS 2189 : 1999 and tested by the ERTL (N).The Orion series panels are specially suited for the small offices, workplaces, small & high rise buildings.

Oriel Series

The Oriel series of Microprocessor based fire alarm panels are an upgraded version which provides a reliable and cost effective solutions to fire detection, from small to large size installations which have 2, 4, 6, 8 & could go up to 60 zones of selecting models and features. These units have been designed to offer high standards of performance, reliability and quality and comply with IS 2189 : 1999 and tested by the ERTL (N).The Oriel series panels are specially suited for the small offices, workplaces, small & high rise buildings.

Basic Features

Easy Installation	Easy Installation
Easy Operation.	Easy Operation.
Easy to Maintain.	Easy to Maintain.

Standard Features

Complies to IS 2189: 1999 and Tested by ERTL (N).	Complies to IS 2189: 1999 and Tested by ERTL (N).
2 X 16 character backlit LCD display.	2 X 16 character backlit LCD display. (4 x 20 character, optional)
Lamp test feature.	64 / 128 / 256 / 512 Events logging facility with real time clock and keypad.
Complete with integral power supply and	2 wire Communication facility via RS 485 Port.
battery charger for sealed lead acid battery.	Computer attachment with Printer Facility.
NO/NC contacts for both fire and fault.	BMS attachment.
Switches to enable on board operation.	In built Auto Dialing facility, Security, Guard Monitor & access control system
LCD and LED Indication for open,	Repeater panel facility. (2 wire with LCD)
short circuit, Isolate, Fire in each zone.	Ouput for extinguishing facility and activated when alarm from 2 cross zones.
Maximum nos. of Detectors in each zone is 25.	(Time delay 0-99 sec., optional)
Optional Features	Lamp test feature.
4 X 20 character backlit LCD display.	Complete with integral power supply and battery charger for sealed lead acid battery.
2 wire Communication facility via RS 485 Port.	NO/NC contacts for both fire and fault.
BMS attachment. / Repeater panel facility. (2 wire with LCD)	Switches to enable on board operation.
256 / 512 Events logging facility with real time clock and keypad.	LCD and LED Indication for open, short circuit, Isolate, Fire in each zone.
Computer attachment with Printer Facility.	Maximum nos. of Detectors in each zone is 25.
Ouput for extinguishing facility and activated when alarm from 2 cross zones. (Time delay 0-99 sec.)	Alpha numeric keypad for easy operations & programming

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Electrical Specification

Operating Voltage	24 Volts DC.	24 Volts DC.
Stand by Batteries	24 volt DC (2 X 12 volt DC)	24 volt DC (2 X 12 volt DC)
Power Supply		
Mains	220 volt AC, 50 Hz to the internal mains transformer. (± 10%)	220 volt AC, 50 Hz to the internal mains transformer. (± 10%)
Input	26 volt from internal mains transformers.	26 volt from internal mains transformers.
Output	24 volt DC ; 12 volt DC. (Regulated)	24 volt DC ; 12 volt DC. (Regulated)
Charging Voltage:	27.2 volts DC.	27.2 volts DC.
End of Line Resistor:	4.7 K Ohm, One per zone.	4.7 K Ohm, One per zone.

Environmental Operating Limits :

Temperature	0 deg. C to 50 deg. C	0 deg. C to 50 deg. C
Humidity	90% to 95% RH condensing.	90% to 95% RH condensing.

Dimensions (mm) :

Length x Breadth x Depth	275 x 325 x 95 (2 Zone & 4 Zone)	325 x 325 x 95 (2 Zone & 8 Zone)
Weight	3.920 Kg.	4.470 Kg.
	395 x 360 x 125 (6 Zone & 8 Zone)	
	8.200 Kg.	

Construction :

Material	1.6 / 1.8 mm CRCA sheet duly powder coated.	1.6 / 1.8 mm CRCA sheet duly powder coated.
Cable Entry	From top and back (20 mm knock outs)	From top and back (20 mm knock outs)
No. of Zones	**2 to 60 zones.**	**2 to 60 zones.**

Internal Sounders :

	Continuous buzzer for the fault condition	Continuous buzzer for the fault condition
	Intermittent buzzer for the fire condition.	Intermittent buzzer for the fire condition.

External Output :

Sounder Output	Common hooter output with number of individual output per zone.	Common hooter output with number of individual output per zone.
Aux. Relay Output	One each for fire and fault can be expanded	One each for fire and fault can be expanded
	according to the individual requirement.	according to the individual requirement.

Approvals :

Department	BSNL, PWD, CPWD, Banks and	BSNL, PWD, CPWD, Banks and
	other Private and Govt. Departments	other Private and Govt. Departments.
Tested By	ERTL(N),	ERTL(N),

Zone Display

Green LED	Zone healthy.	Zone healthy.
Amber LED	Isolate, short & open	Isolate, short & open
Dual Red LED	Fire	Fire
LCD Display	2X16 character indicating complete status of zone.	2X16 character indicating complete status of zone.

User Controls

	Reset, Lamp Test, Silence, Isolate, Short, Open, Fire.	Reset, Lamp Test, Silence, Isolate, Short, Open, Fire.
		Alpha numeric keypad for programming & operation.

LED Indications on Panel

	Mains ON, Charging On, System On, Battery Low	Mains ON, Charging On, System On, Battery Low
	Stand By On, Earth Fault, Buzzer Silence, Alarm Silence	Stand By On, Earth Fault, Buzzer Silence, Alarm Silence
	Zone On, Zone Isolate, Short, Open, Alarm.	Zone On, Zone Isolate, Short, Open, Alarm.

LCD Indications on Panel

	Zone status	Zone status, Date & time, Events, Dialing No. display.

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