

VE-500 Series

8 / 16 Zone Conventional Fire Alarm Control Panel



OVERVIEW

VE-500 Series Panel available in 8 and 16 Zone Conventional fire alarm panel offers technically advanced range of functions while remaining easy to install, program and operate 8 and 16 Zone Fire Alarm Control Panel which monitors its 8 and 16 Zone status and displays the same to its main console via LED's, LCD.



In case of an events of fire and fault, It will indicate the respective zone on its console and also perform the required function like activating the hooters. Each Zone can have a maximum of 20 Conventional Detectors. Panels are featured to integrate with auto dialler and third-party systems with potential free contact. Designed with Robust and Reliability in mind. Built to last and maintain durable function over, Using high-quality materials and components. Reliable Performance consistently to the safety of the promises in which the system is installed.

FEATURES

- Microcontroller based Design
- Zone wise LED indications
- Auto reset supervisory operation
- 256 -Event History with time & date stamp
- Zone Card Enable/Disable Feature
- On-site programming of zone location through an integral keypad
- LCD display - 20 X 4 characters
- Surface mount technology
- Guard ring to protect EMI/EMC
- Rugged Body construction
- CRCA sheet, Powder Coated Housing
- Fast RS-485/CAN communication protocol
- Fully confirms IS: 2189
- Inbuilt Battery Charger
- Battery (2Nos. of 12V, 7AH) maximum Space
- Compatible with all conventional types of devices 20 Devices Each Zone
- Inherently power limited
- Intermittent buzzer indicates a fault or fire condition
- Auxiliary power output for ancillary equipment
- Easy to installation and operate
- System Protection against Short Circuit & Over Load Condition
- Switches for Reset, Silence & LampTest

ELECTRICAL SPECIFICATIONS

Parameter	Specification
Operating Voltage	100VAC to 230VAC 50/60 Hz ($\pm 15\%$) (from mains to SMPS)
Voltage Tolerance	+10%, -15%
Max PSU Rating	800 Milliamps
Battery Charger	1.5Amps and load of the system
Standby Batteries	24V (2×12V 7Ah) sealed lead-acid
Power Supply Input	100VAC to 230VAC 50/60 Hz ($\pm 15\%$)
SMPS Output	24V DC 4.5A
Sounder Output	24VDC 1amp
Relay Output	3 common Fire Relay (C/NO/NC) Dry Contacts
Auxiliary Relay Rating	24V DC 2A
EOL Resistor	4.7k ohm

ENVIRONMENTAL SPECIFICATIONS

Parameter	Details
Operating Temperature	0°C to + 60°C (32°F to 120°F)
Humidity	5% To 95% R.H. non-condensing

MECHANICAL SPECIFICATION

Parameter	Details
Dimension (MM)	450X380X150
Weight	Approx 8.5Kg (W/o Battery)
Colour	Cream white or as per customer requirement
Housing	CRC Sheet, Power Coating
Mounting Holes	4 Holes at the back side of Panel Box
Knock Out (20mm)	18
IP Rating	IP50



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APPROVALS

- CE Certified

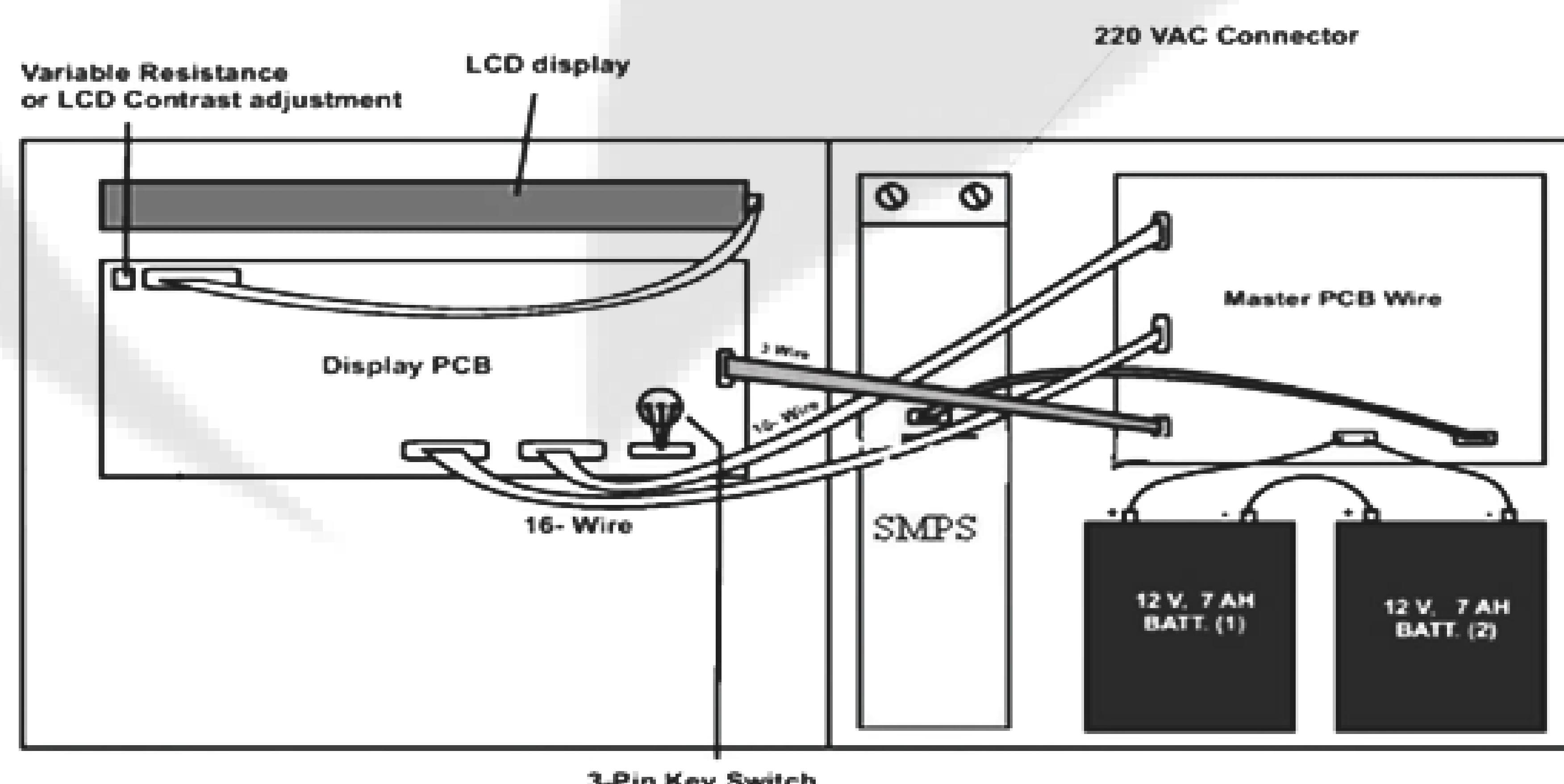
LED INDICATIONS

- Mains ON
- Battery Mode
- Battery Charging
- Low Battery
- Battery Fault
- OverLoad
- Sounder disable
- Evacuate
- Fire
- Fault
- System fault
- Zone Isolate
- Silence
- Communication Error
- DelayOverride
- Drill Mode

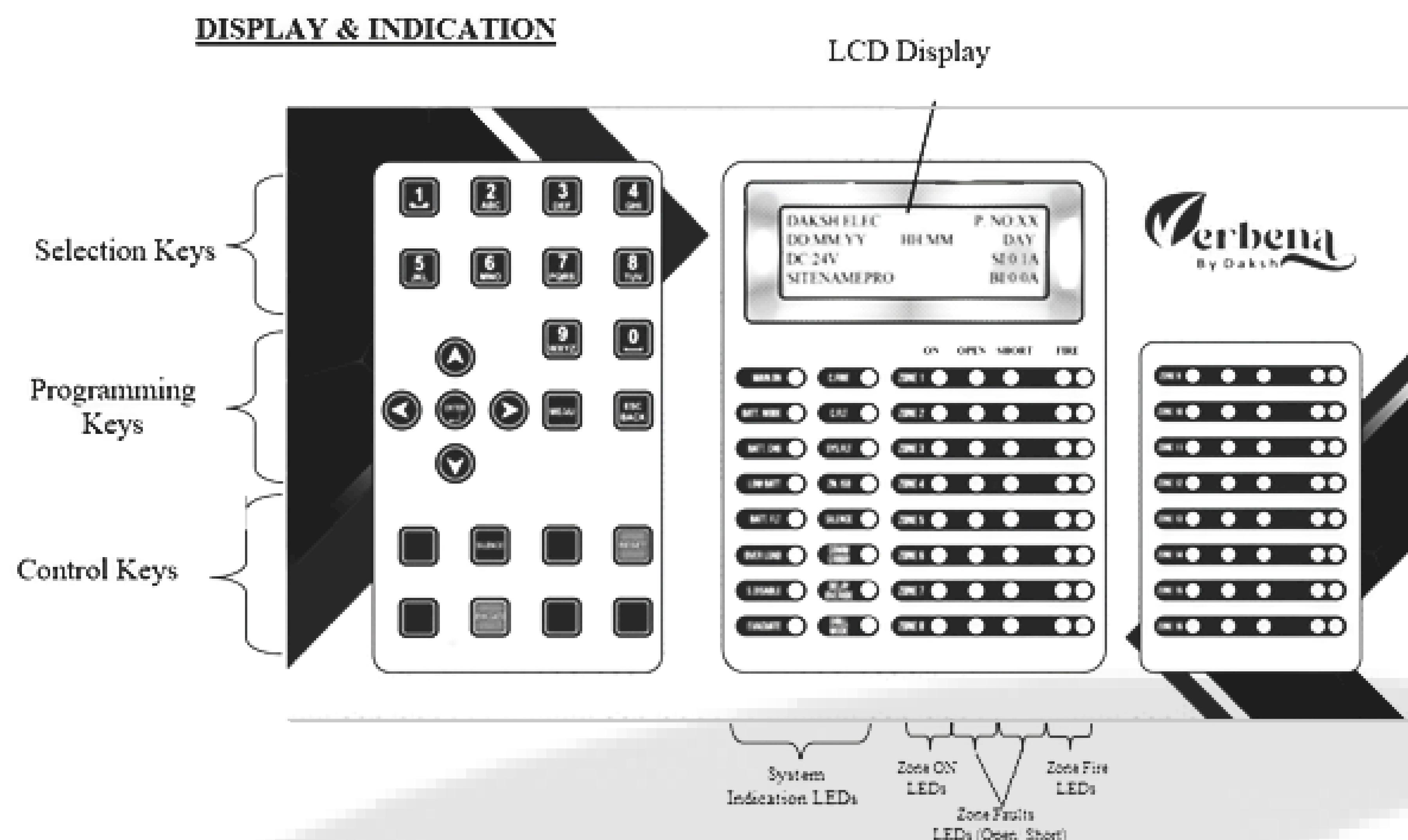
SCHEMATIC DIAGRAM

Conventional Fire Alarm Control Panel 8 and 16 Zone

INSIDE ENCLOSURE

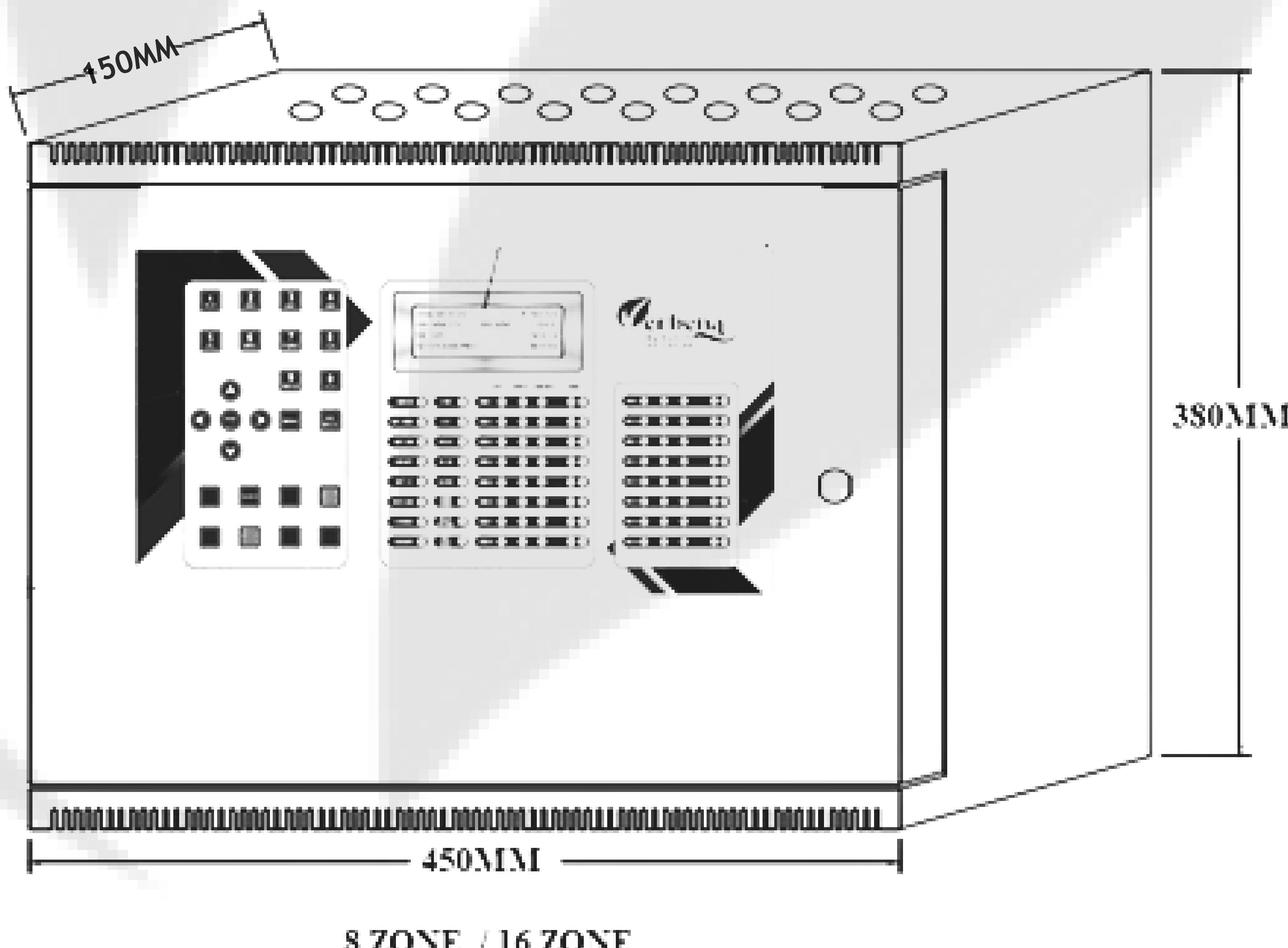


OUTSIDE ENCLOSURE



INSTALLATION DIMENSIONAL DRAWING

Conventional Fire Alarm Control Panel 8 and 16 Zone

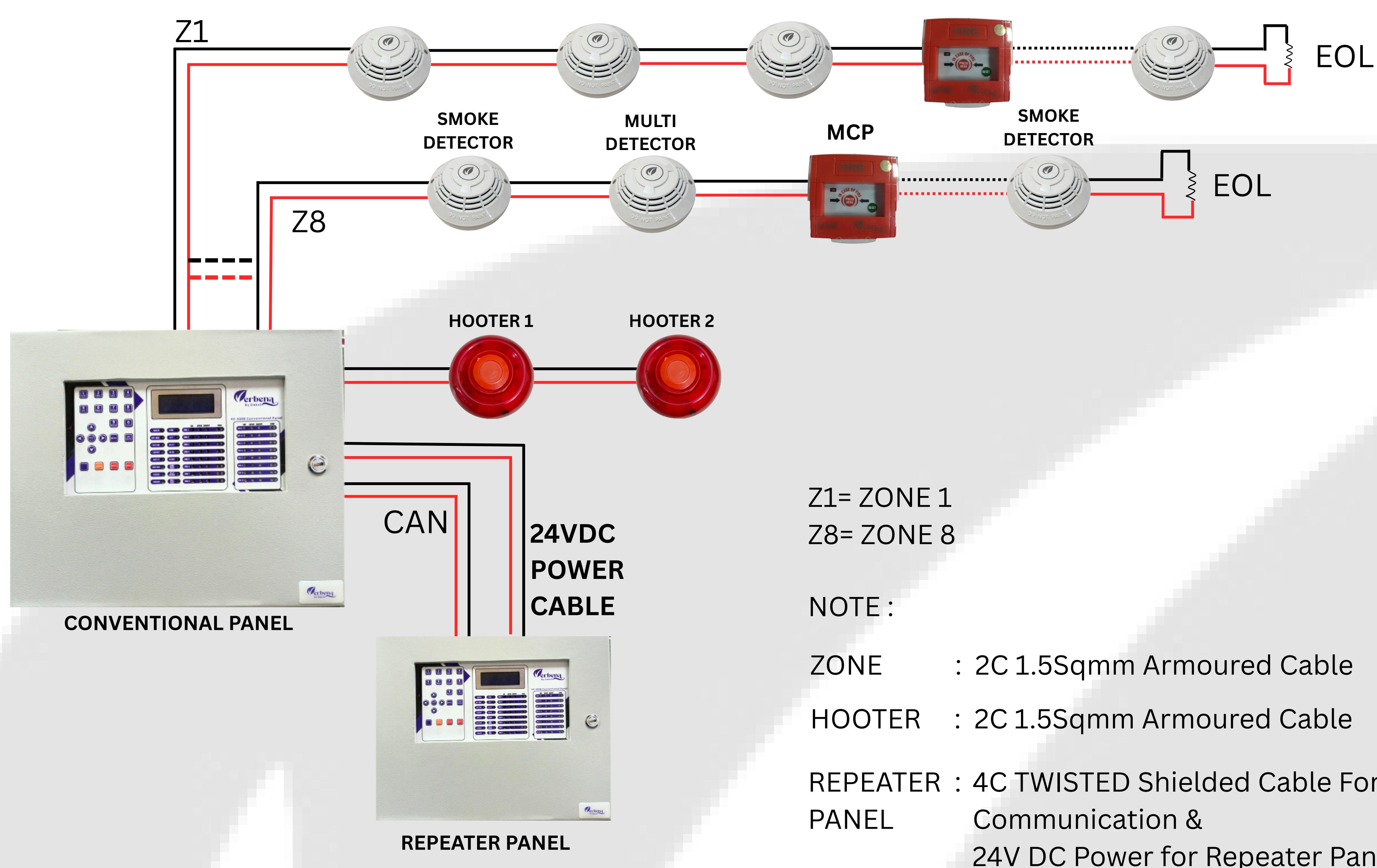


WIRING DIAGRAMS

Conventional Fire Alarm Control Panel 8 Zone

12V+	GND	24VR	GND	A-REP	B-REP	A	B	CANH	CANL	Relay-AHU	Relay-Fire	Relay-Fault	+	GND	Z-1	Z-2	Z-3	Z-4	Z-5	Z-6	Z-7	Z8															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38

WIRING SCHEMATICS

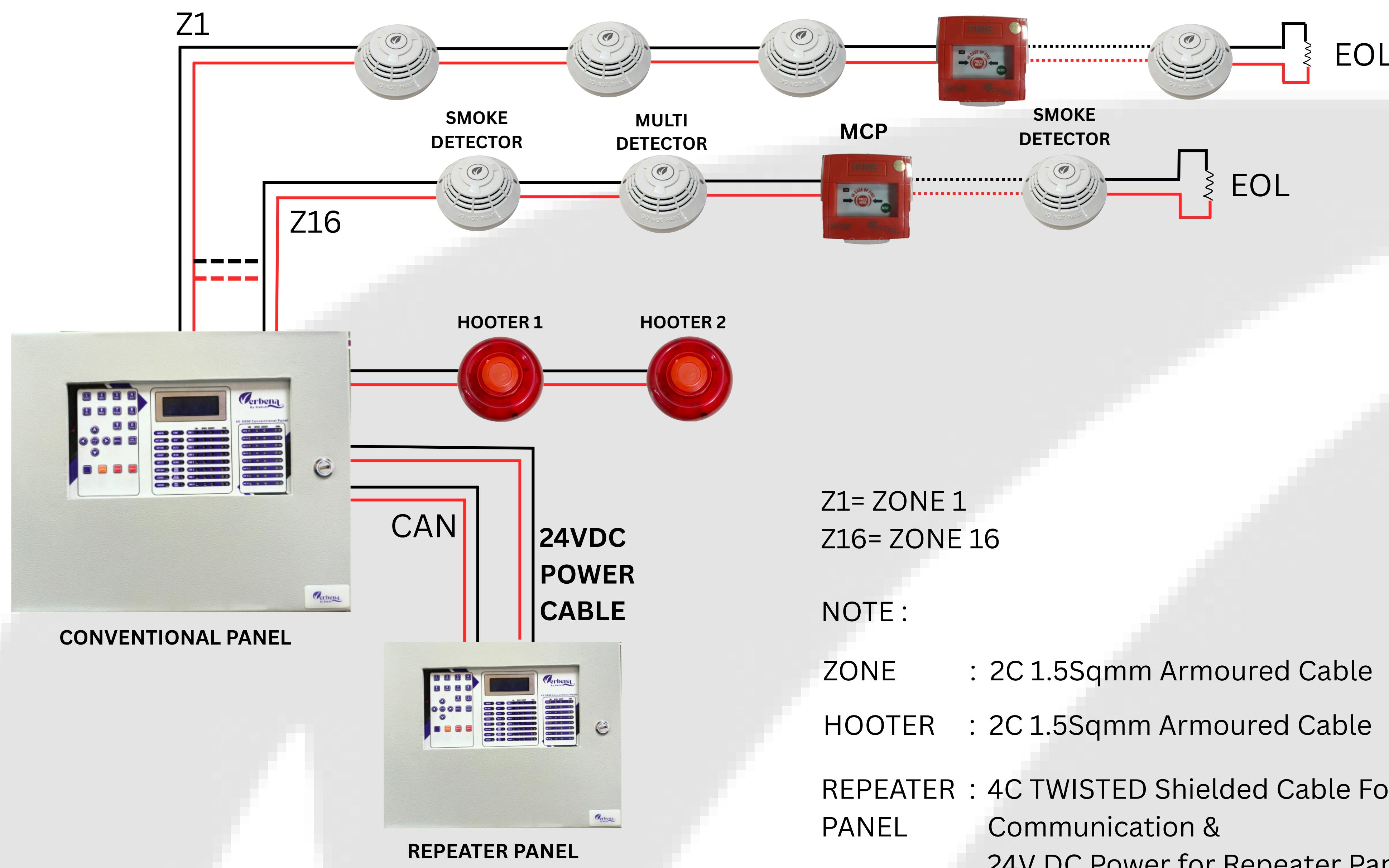


WIRING DIAGRAMS

Conventional Fire Alarm Control Panel 16 Zone

12V+	GND	24VR	GND	A-REP	B-REP	A	B	CANH	CANL	Relay-AHU	Relay-Fire	Relay-Fault	+	GND	Z-1	Z-2	Z-3	Z-4	Z-5	Z-6	Z-7	Z8															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Z-9	Z-10	Z-11	Z-12	Z-13	Z-14	Z-15	Z-16																														
+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-				
38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53																						

WIRING SCHEMATICS



Z1= ZONE 1
Z16= ZONE 16

NOTE :

ZONE : 2C 1.5Sqmm Armoured Cable
HOOTER : 2C 1.5Sqmm Armoured Cable
REPEATER : 4C TWISTED Shielded Cable For
PANEL Communication &
24V DC Power for Repeater Panel

DISCLAIMER

This document provides a general overview only and is not intended for use during installation. All information should be reviewed with a qualified fire-safety professional before selecting or applying the product. Specifications may be changed at any time without prior notice.