

YA-CP100

Conventional Fire Alarm Control Panel

6, 10, 14, 18 Zone Detector



General

The product have been designed to offer high standards of performance, reliability, design modern and quality.

- **FCP YA-CP100** can connect to 1-6, 10, 14, 18 LED for zone detector, 1 zone alarm bell, 1-18 LED for graphic annunciator (optional), 1-18 zone alarm bell (optional), and storage timer alarm (optional).



Features

External (key-switch operated)

- Reset / Resound / Test zone lamps / Evacuate
- Silence alarm sounders
- Silence fault sounders

Internal :

- One man detector test
- Zone isolate
- Revert to short-circuit : fire (*no resistors in call points*)

External indicators :

- Sounder fault
- Battery / power supply fault
- Mains on
- Zone fire
- Zone fault

Internal indicators :

- Open circuit zone fault
- Short circuit zone fault
- Zone isolated
- Engineer test selected

Outputs :

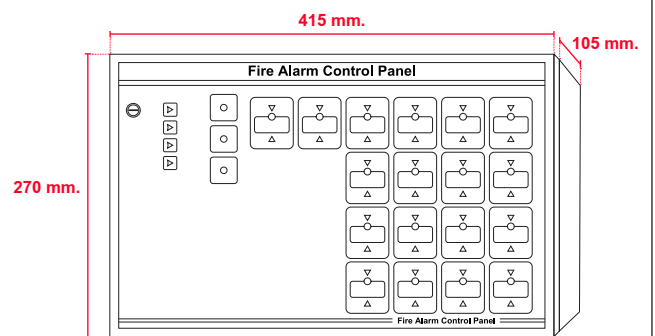
- Two sounder circuits (alarm relay contacts can be obtained by connecting a relay to a sounder circuit)

Ancillary connections for expansion modules will allow the following :

- Repeater panels
- Multiple sounder outputs
- Connection to landlord panel

■ **FCP YA-CP100** 1-6, 10, 14, 18 Zone Detector

Dimension



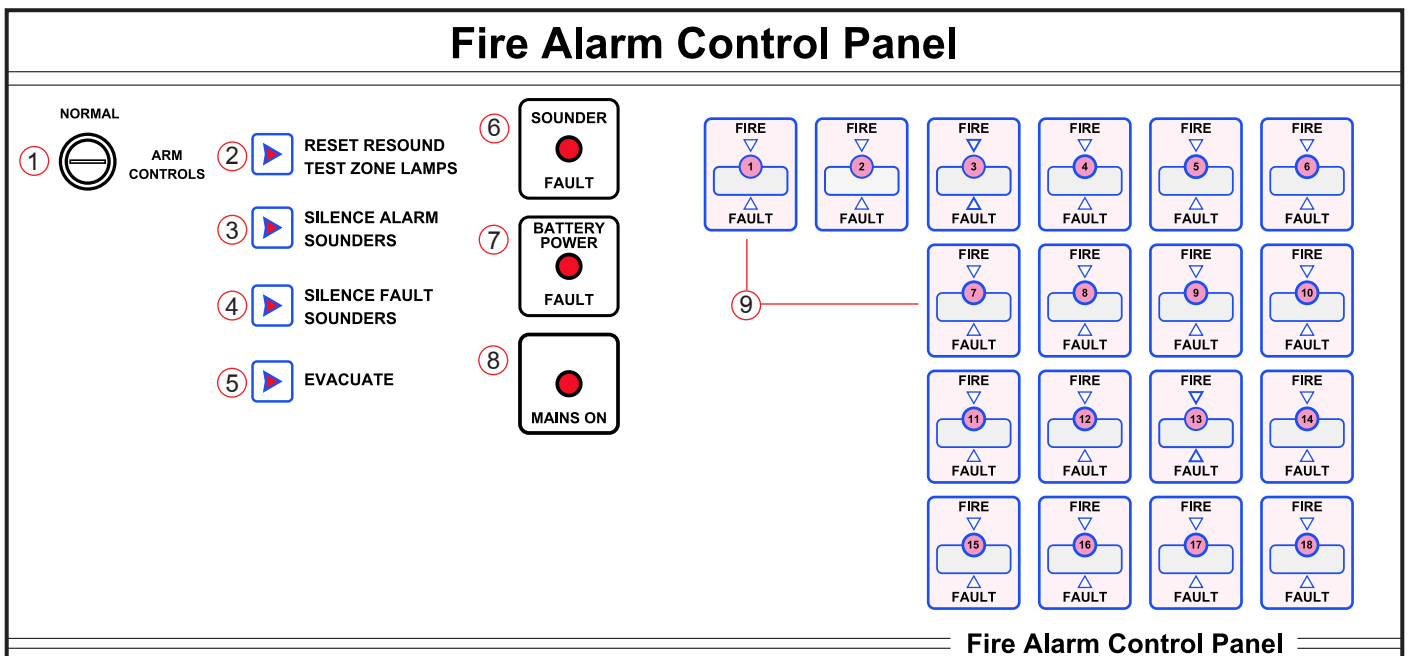
****FCP : Fire Alarm Control Panel**

FIRE ALARM INITIATING DEVICES

General

- **NORMAL CONDITION** - The green **MAINS ON** light is lit - The Key switch is at **NORMAL**
- **ALARM CONDITION** - the alarm sounders operate and the red **FIRE** lights flash - **EVACUATE THE BUILDING**
- **TO SILENCE ALARM SOUNDERS** - Turn the key switch to **ARM CONTROLS**, then press the **SILENCE ALARM SOUNDERS** button, the lights will go steady, and the **FAULT SOUNDER** will Sound, Do not Press the **RESET/ RESOUND/ TEST ZONE LAMPS** button until you have identified the detector causing the alarm signal. When you have indentified the cause of the alarm signal, press the **RESET/ RESOUND/ TEST ZONE LAMPS** button to re-arm the system. Pressing the button will **RESOUND** the sounders, when the alarm still exists.
- **FAULT CONDITION** - The **FAULT SOUNDER** sounds and a yellow **FAULT** light comes on. Identify the fault light - Check that the **MAINS ON** light is on and call the engineer.
- **TO SILENCE** - The **FAULT SOUNDER** Turn the key switch to **ARM CONTROLS** and press the **SILENCE FAULT SOUNDER** button. Press the **SILENCE FAULT SOUNDERS** to evacuate.
- Turning the key switch to **ARM CONTROLS** and Pressing **EVACUATE** will always operate the alarm **SOUNDERS**.
- **TO TEST** - the fault sounder and the zone lamps, turn the key switch to **ARM CONTROLS** and press the **RESET/ RESOUND/ TEST ZONE LAMPS** button.
- For further information. please check the instruction manual.

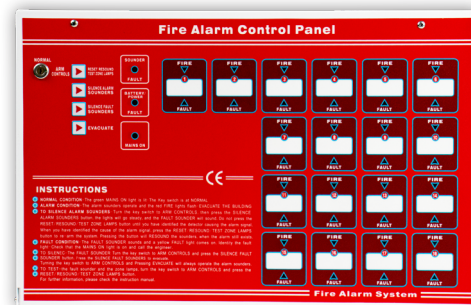
System Control and Indicator On Board



YA-CP100 1-18 Zone Detector

- Key Switch Control
- Reset Resound Test Zone Lamps Switch
- Silence Alarm Sounders Switch
- Silence Fault Sounders Switch
- Evacuate Switch
- Sounder Fault Indicator (Yellow Color)
- Battery Power Fault Indicator (Yellow Color)
- Mains On Indicator (Green Color)
- 18 Zone Indicator
Zone Alarm (Red Color)
Zone Fault (Yellow Color)

Fire Alarm Control Panel



YA-CP100 1-6, 10, 14, 18 Zone Detector

FIRE ALARM INITIATING DEVICES

Specifications

MODEL	YA-CP100 (1-6, 10, 14, 18 Zone Detector)
BATTERY BACKUP	24VDC 4AH
POWER SPECIFICATION	
MAINS SUPPLY VOLTAGE	230V ± 10 % Va.c.50 / 60Hz
INTERNAL POWER SUPPLY	24-27 VDC
TOTAL OUTPUT CURRENT LIMITED TO	4000mA at 240 VAC
AUXILIARY POWER OUTPUT	24-27 VDC
MAINS SUPPLY MONITORED FOR FAILURE	YES
BATTERY CHARGER MONITORED FOR FAILURE	YES
BATTERIES MONITORED FOR DISCONNECTION AND FAILURE	YES
DETECTOR CIRCUIT SPECIFICATION	
NUMBER OF CIRCUITS	1-6, 10, 14, 18
LINE FAULT MONITORED FOR OPEN CIRCUIT	YES
LINE FAULT MONITORED FOR SHORT CIRCUIT	YES (Can be disabled)
LINE FAULT MONITORED FOR DETECTOR REMOVAL	Yes, if End of Line Monitor Unit fitted in place of End of Line Resistor
END OF LINE RESISTOR (SUPPLIED) VALUE	6800Ω, 5% TOLERANCE, 0.25W
DETECTOR CONTINUITY DIODES	Silicon 1N4001 or Schottky type (required if End of Line Monitor Unit fitted to give detector removal fault)
CALL POINT RESISTOR VALUE (NOT SUPPLIED)	470 to 680 Ω, 0.5W
MAXIMUM NUMBER OF SMOKE DETECTORS PER ZONE	20 (maximum detector current = 2mA)
MAXIMUM NUMBER OF MANUAL CALL POINTS PER ZONE	No limit
SOUNDER CIRCUIT SPECIFICATION	
NUMBER OF CIRCUITS	2
END OF LINE RESISTOR VALUE	6800 Ω, 5% tolerance, 0.25W
LINE FAULT MONITORED FOR OPEN CIRCUIT	YES
LINE FAULT MONITORED FOR SHORT CIRCUIT	YES
OUTPUTS FUSED AT	1.6Amp
MAXIMUM TOTAL OUTPUT CURRENT ALL OUTPUTS	4000mA
MAXIMUM NO OF BELLS @ 25 mA EACH BELL	120
MAXIMUM NO OF ELECTRONIC SOUNDERS @ 20 mA	150
AUXILIARY RELAY CONTACTS (DO NOT CONNECT MAINS VOLTAGES)	1A 32VDC max Voltage Free
FUSES - ALL FUSES COMPLIANT TO IEC (EN60127PT2)	
MAINS TERMINAL BLOCK	630mA T 20mm
SOUNDER OUTPUTS	1.6A F 20mm
AUXILIARY OUTPUT	1A F 20mm
BATTERY FUSE	3A F 20mm
DOOR RETAINING MAGNETS	DO NOT USE PANEL POWER SUPPLY AS YOU WILL DRASTICALLY REDUCE BATTERY STAND - BY TIME
CONNECTION BLOCK	
LARGEST ACCEPTABLE CONDUCTOR SIZE	2.5mm ²
SMALLEST ACCEPTABLE CONDUCTOR SIZE	0.75mm ²
DIMENSION	
ENCLOSURE (WIDTH X HEIGHT X DEPTH)	415 X 270 X 105 mm
WEIGHT - WITHOUT BATTERIES + (PAPER BOX)	5200g + (600)