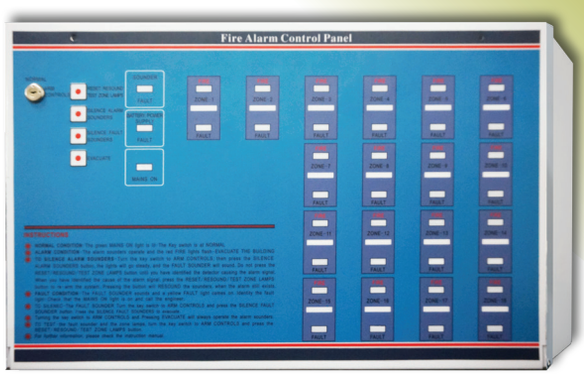
CEMEN
FIRE ALARM SYSTEM

CE Model MADE IN CHINA
YA-CP100 (FA-777)
YA-CCP100-10 (FA-777S-10)
SHENZHEN USAFE INTELLIGENT
TECHNOLOGY CO., LTD



# FA-777
# FA-777S-10

## Conventional Fire Alarm Control Panel
## 1-18 Zone Detector




**FCP FA-777 6, 10, 14, 18 Zone Detector**
**FCP FA-777S-10 1-10 Zone Detector**

## General

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

- *FCP FA-777 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).*
- *FCP FA-777S-10 can connect to 1-10 LED for zone detector, 1 zone alarm bell.*

• *FCP : Fire Alarm Control Panel*

## 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*

16 YEARS 2004 - 2020 Success Proven CEMEN FIRE ALARM SYSTEM

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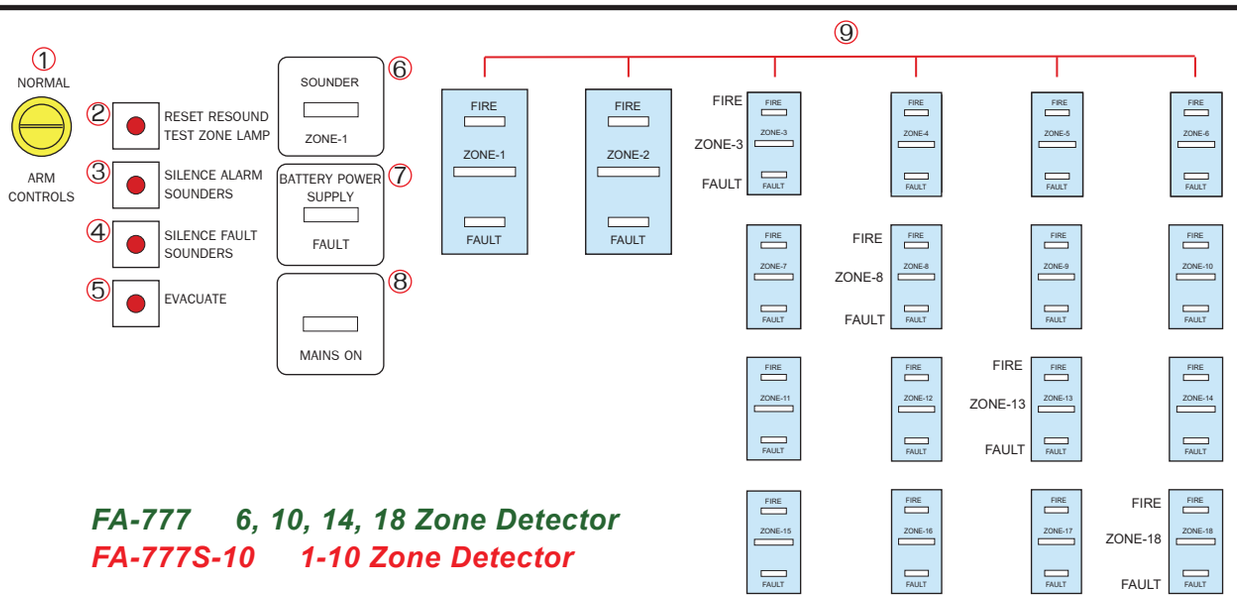
**FIRE ALARM EQUIPMENT**

## Instructions

- 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 fiash-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 prass the RESET/RESOUND/TEST ZONE LAMPS button until you have identified the detector causing the alarm signal. When you have identified 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. Identity the fault light-Check that the MAINS ON light is on and call the engineer.
- TO SILENEC-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

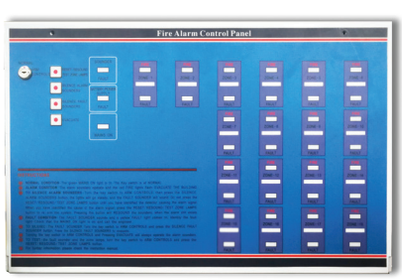



***FA-777 6, 10, 14, 18 Zone Detector***
***FA-777S-10 1-10 Zone Detector***

## FA-777 1-18 Zone Detector & FA-777S-10 1-10 Zone Detector

1. *Key Switch Control*
2. *Reset Resound Test Zone Lamp Switch*
3. *Silence Alarm Sounders Switch*
4. *Silence Fault Sounders Switch*
5. *Evacuate Switch*
6. *Sounder Fault Indicator (Yellow Color)*
7. *Battery Power Supply Fault Indicator (Yellow Color)*
8. *Mains On Indicator (Green Color)*
9. *18 Zone Indicator*
   *Zone Alarm (Red Color)*
   *Zone Fault (Yellow Color)*

**Fire Alarm Control Panel**

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**FIRE ALARM EQUIPMENT**

# Specifications

| **Model** | **FA-777**<br>**1-6, 10, 14, 18 Zone Detector** | **FA-777S-10**<br>**1-10 Zone Detector** |
|---|---|---|
| Battery Backup | 24VDC 4AH | 24VDC 1.2AH |
| **POWER SPECIFICATION** | | |
| MAINS SUPPLY VOLTAGE | 230V±10%Va.c.50/60Hz | 230V±10%Va.c.50/60Hz |
| INTERNAL POWER SUPPLY | 24-27 Vd.c. | 24-27 Vd.c. |
| TOTAL OUTPUT CURRENT LIMITED TO | 4000mA@240VAC | 3000mA@240VAC |
| AUXILIARY POWER OUTPUT | 24-27 Vd.c. | 24-27 Vd.c. |
| MAINS SUPPLY MONITORED FOR FAILURE | YES | YES |
| BATTERY CHARGER MONITORED FOR FAILURE | YES | YES |
| BATTERIES MONITORED FOR DISCONNECTION AND FAILURE | YES | YES |
| **DETECTOR CIRCUIT SPECIFICATION** | | |
| NUMBER OF CIRCUITS | **1-6, 10, 14, 18** | **10** |
| LINE FAULT MONITORED FOR OPEN CIRCUIT | YES | YES |
| LINE FAULT MONITORED FOR SHORT CIRCUIT | YES (Can be disabled) | 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 | 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 | 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) | 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 680Ω, 0.5W | 470 to 680Ω, 0.5W |
| MAXIMUM NUMBER OF SMOKE DETECTORS PER ZONE | 20(maximum detector current = 2mA) | 20(maximum detector current = 2mA) |
| MAXIMUM NUMBER OF MANUAL CALL POINTS PER ZONE | No limit | No limit |
| **SOUNDER CIRCUIT SPECIFICATION** | | |
| NUMBER OF CIRCUITS | 2 | 2 |
| END OF LINE RESISTOR VALUE | 6800Ω, 5%tolerance,0.25W | 6800Ω, 5%tolerance,0.25W |
| LINE FAULT MONITORED FOR OPEN CIRCUIT | YES | YES |
| LINE FAULT MONITORED FOR SHORT CIRCUIT | YES | YES |
| OUTPUTS FUSED AT | 1.6 Amp | 1.6 Amp |
| MAXIMUM TOTAL OUTPUT CURRENT ALL OUTPUTS | 4000mA | 3000mA |
| MAXIMUM NO OF BELLS @ 25 mA EACH BELL | 120 | 120 |
| MAXIMUM NO OF ELECTRONIC SOUNDERS @ 20 mA | 150 | 150 |
| AUXILIARY RELAY CONTACTS (DO NOT CONNECT MAINS VOLTAGES) | 1A 32 Vd.c. max Voltage Free | 1A 32 Vd.c. max Voltage Free |
| **FUSES-ALL FUSES COMPLIANT TO IEC (EN60127 PT2)** | | |
| MAINS TERMINAL BLOCK | 630mA T 20mm | 630mA T 20mm |
| SOUNDER OUTPUTS | 1.6A F 20mm | 1.6A F 20mm |
| AUXILIARY OUTPUT | 1A F 20mm | 1A F 20mm |
| BATTERY FUSE | 3A F 20mm | 3A F 20mm |
| DOOR RETAINING MAGNETS | DO NOT USE PANEL POWER SUPPLY AS YOU WILL DRASTICALLY REDUCE BATTERY STAND-BY TIME | DO NOT USE PANEL POWER SUPPLY AS YOU WILL DRASTICALLY REDUCE BATTERY STAND-BY TIME |
| **CONNECTION BLOCK** | | |
| LARGEST ACCEPTABLE CONDUCTOR SIZE | $2.5mm^2$ | $2.5mm^2$ |
| SMALLEST ACCEPTABLE CONDUCTOR SIZE | $0.75mm^2$ | $0.75mm^2$ |
| **DIMENSIONS** | | |
| ENCLOSURE(WIDTH x HEIGHT x DEPTH) | 415 x 270 x 105mm | 415 x 270 x 105mm |
| WEIGHT-WITHOUT BATTERIES+(Paper Box) | 5200g + (600) | 3800g + (600) |