MADE IN TAIWAN



ISO 9001 : 2015

Manufactured : Chang Long Fire Protection Inc. MADE IN TAIWAN



### **General**

Fire control panels **FA-500** series **5**, **10**, **15**, **20** zone detector, produce alarms to alert the control panel operator and the residents when they receive a fire signal from detector normally. They consist of two different display modes, i.e individual zone lamps and trouble alarm lamps which can connect with the graphic display and annunciator.

#### **Features**

■ Model: FA-500 Series - 1 Zone Bell

FA-505 5 Supervise Zone Detector

FA-510 10 Supervise Zone Detector

FA-515 15 Supervise Zone Detector

FA-520 20 Supervise Zone Detector

- Zoned visual red alarm LED and red FIRE indicators
- Zoned visual yellow O/C fault LED.
- Continuous signal during alarm.
- Built-in battery charger.
- Low/No power and battery detection.
- Automatic loading and testing of battery.
- Battery lead reversal protection.
- Zone fire test and zone O/C fault test.
- Fire storage (Double check of the fire signal)
- Fire alarm and trouble buzzer.
- Added Option in Thailand

Option: With connect graphic display

Option: With timer

Option: With AUX relay for zone

### **Electrical**

■ Model: FA-500 Series

Standard: Reply CNS.8877.Z2044

Primary Power Source: 220 VAC, 50/60 Hz

Secondary Power Source : (Battery Backup)

FA-505 5 Zone : 24 VDC 1.2 Ah

FA-510 10 Zone : 24 VDC 1.2 Ah

FA-515 15 Zone : 24 VDC 2.1 Ah

FA-520 20 Zone : 24 VDC 2.1 Ah

Zone Power: 24 VDC. (18 VDC - 30 VDC)

■ Zone EOL: 10K EOL (1/4 - 1/2W Resistor)

Bell Power: 24 VDC. (1.0 amps)

Panel Color : White & Ivory

Dimension (mm.)

FA-505 : 300 X 380 X 95 mm.

FA-510 : 300 X 460 X 95 mm.

FA-515 : 310 X 560 X 110 mm.

FA-520 : 310 X 640 X 110 mm.



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# **Operation for FA-500 SERIES**

#### NORMAL CONDITION

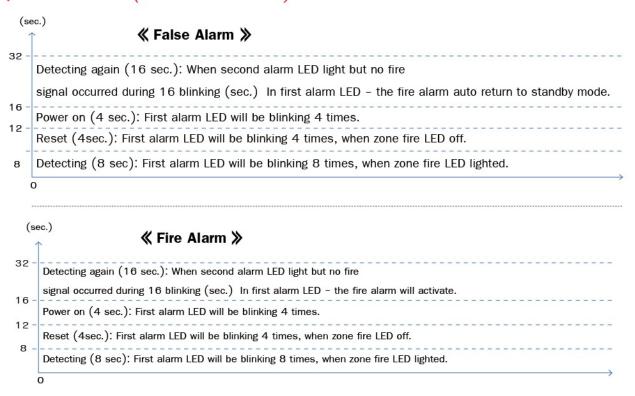
The normal condition refers to a control panel with no active events.

- The green AC POWER LED is lit (steady indication)
- The green NORMAL LED is lit (steady indication)
- No other LED indications are given.

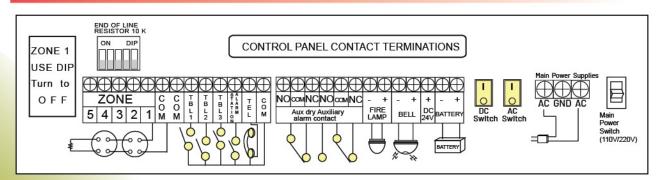
#### FIRE CONDITION

- The control panel is in fire condition, i.e it is signalling a fire alarm.
- The FIRE indicator (red LED) is flashing.
- The Zone which has detected the fire is indicated by ZONE FIRE lights.
- The internal control panel FIRE ALARM BUZZER sounds.
- External alarm devices are activated. (Bell: 24VDC, Aux relay ary contacts: NO)

### FIRE STORAGE (FOR DOUBLE CHECK)



## Wiring Diagram for FA-500 SERIES CONTROL PANEL

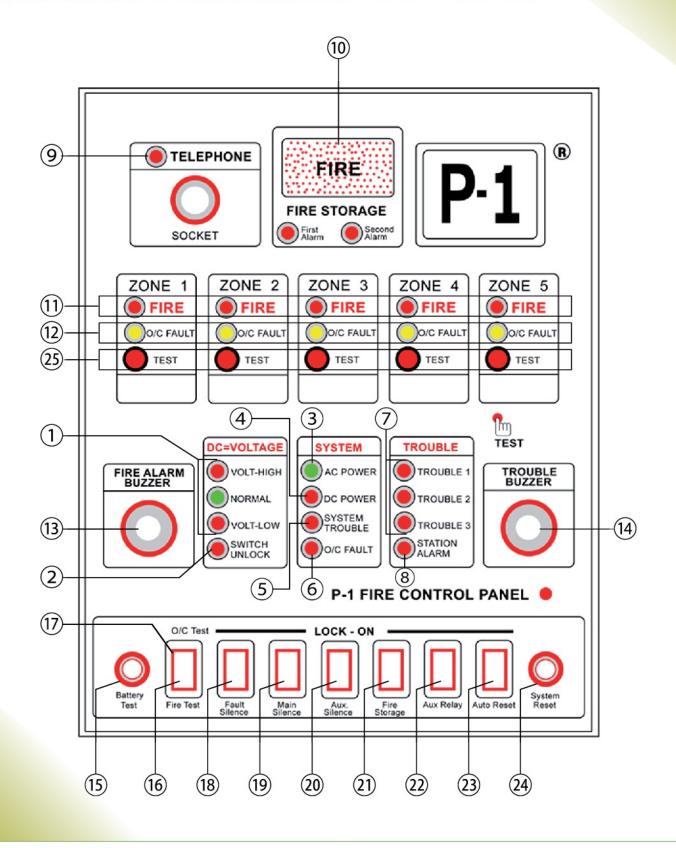




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# FA-500 SERIES

# System Control And Indicator On Board





ISO

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## FA-500 SERIES

## SYSTEM CONTROL AND INDICATOR ON BOARD

### INDICATING LED

(1) **DIGITAL VOLTMETER**: Indicating regular power supply (Normal: 20 VDC ~ 30 VDC)

2) SWITCH UNLOCK : Red LED is flashing once 1 sec.

3) AC POWER : Green LED is Lit: The AC power connected to the control panel.

4) DC POWER : The AC power failure and the DC power connected to the control panel.

5) SYSTEM TROUBLE : Red LED is Lit. The fuse fault of main board.

6) O/C FAULT : Red LED is Lit. Indicating zone open circuit fault.

(7) TROUBLE : Red LED is Lit. Indicating tank water below level or other trouble.

(8) STATION ALARM : Red LED is Lit. The manual pull station are activated.

(9) TELEPHONE : Red LED is Lit. Indicating the phone call.

(10) FIRE : Red LED is flashing. Fire alarm!

(11) ZONE FIRE : Red LED is Lit. Indicating the zone has detected the fire.

(12) ZONE O/C FAULT : Yellow LED is Lit. Indicating the zone open circuit fault.

(13) ALARM BUZZER : 85dB @ 1m (min.)

(14) TROUBLE BUZZER : Zone open circuit: once 1 sec. Telephone & trouble alarm: always.

## SWITCH OPERATION: UP - SETTING, DOWN - CLOSE

(15) BATTERY TEST : Pressing the button will test the battery.

: Down the switch to test zone fire circuit (Test mode) (16) FIRE TEST

: Up the switch to test zone open circuit (Test mode) (17) **O/C TEST** 

(18) FAULT SILENCE : Unlock the switch to silence TROUBLE BUZZER.

(19) MAIN SILENCE : Unlock the switch to silence FIRE ALARM BUZZER.

(20) AUX SILENCE : Unlock the switch will cause all sector sounder outputs to switch off.

(21) FIRE STORAGE : Unlock the switch disable to double check the fire alarm signal.

(22) AUX RELAY : Unlock the switch to control the relay NC or NO output.

23) AUTO RESET : Unlock the switch, auto reset to standby mode. 24) SYSTEM RESET : Pressing the button will reset to standby mode.

(25) ZONE TEST : Pressing the button will test zones fire/open circuit (in test mode)