



User Manual

1 ZONE FIRE ALARM CONTROL PANEL
BP-FD-CCP100



Enjoy it.

1 System overview

1.1 System capabilities list

The BP-FD-CCP100 fire alarm panel has the following characteristics:

- **Analogue conventional detector inputs: maximum 20 detectors .**
- **Smaller size and easier for installation, but all-around.**
- **Maximum number of bells per CIE: 2 Bells.**
- **2 relay-outputs: FIRE/FAULT.**
- **High-capacity batteries: 12V2.3Ah*2, over 20h for stand-by use.**
- **Automatic power switchover: mains power and stand-by power.**
- **Succinct functional buttons: friendly user interface for easy operation and recognition.**
- **Fault supervision and notification: inputs, sounder, mains/batteries.**
- **Evacuation: man-made fire alarm condition on panel.**
- **Silence: sounders and panel buzzer.**
- **Extensible application for GSM: inform user anytime by mobile telephone.**

1.2 Inside view of cabinet

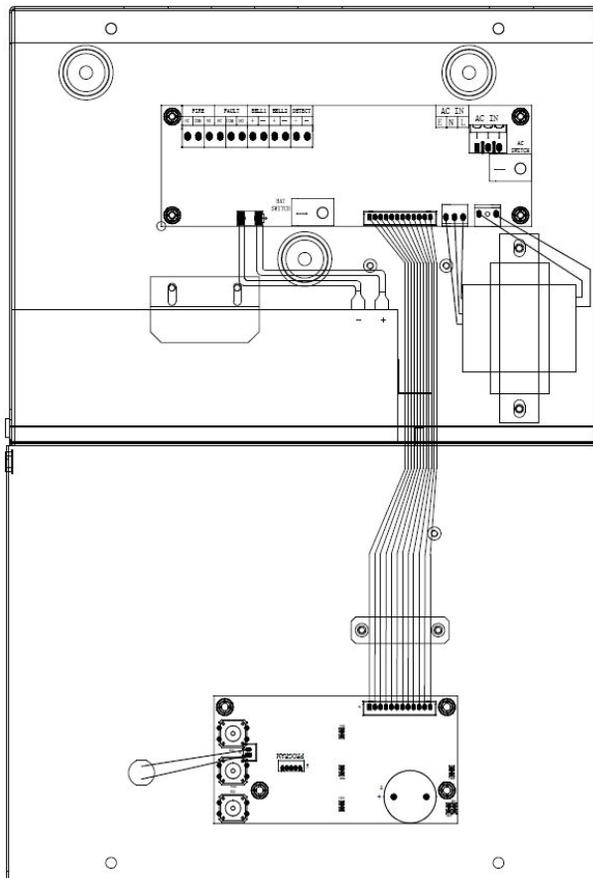


Figure 1 . Inside view of cabinet (inside wires connection)

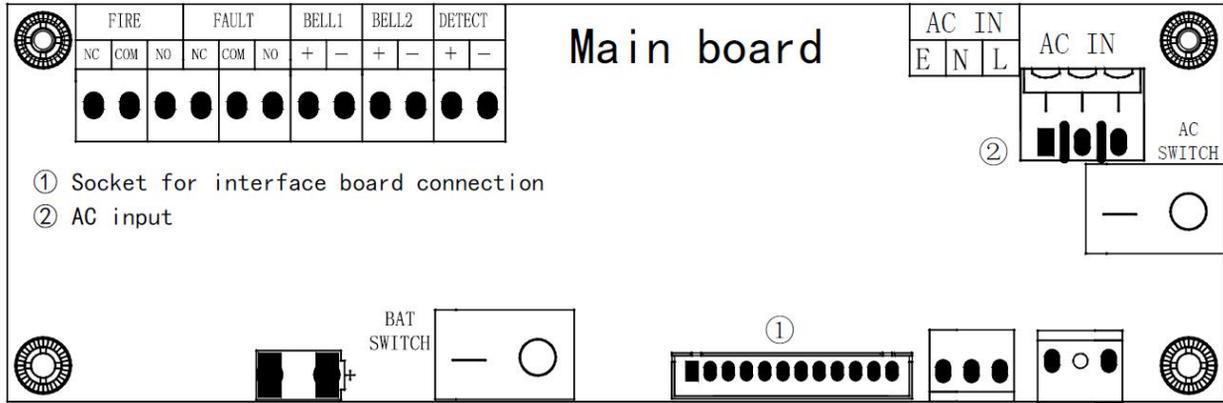


Figure 2. Main board identification

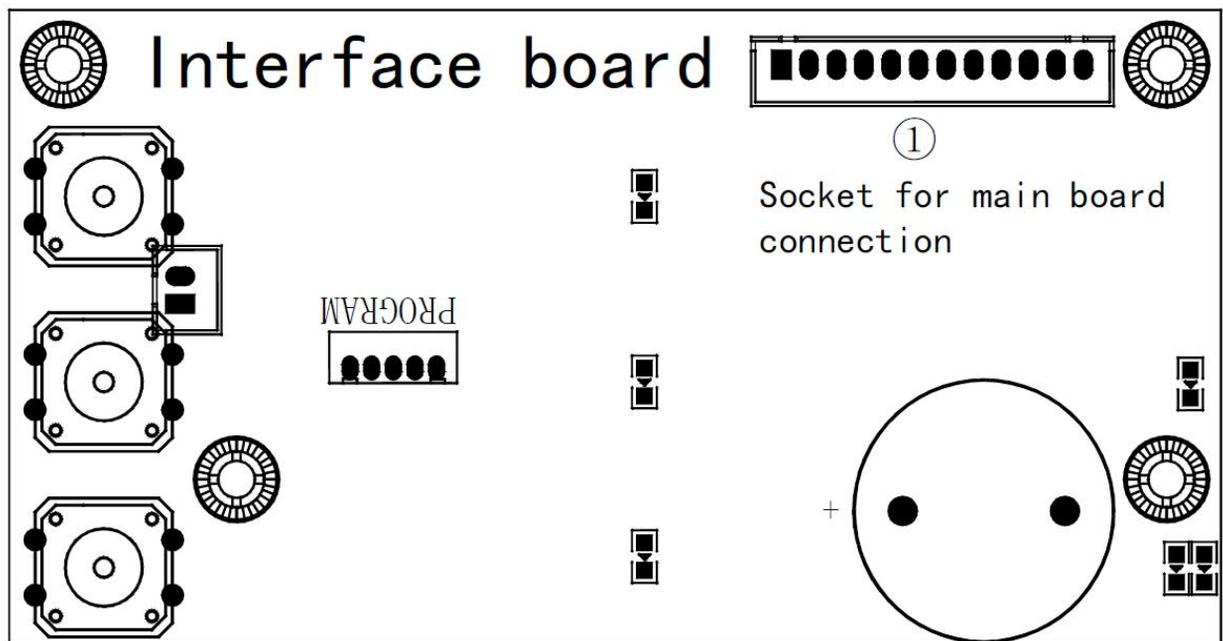


Figure 3. Interface board Components identification

1.3 Accessories connection

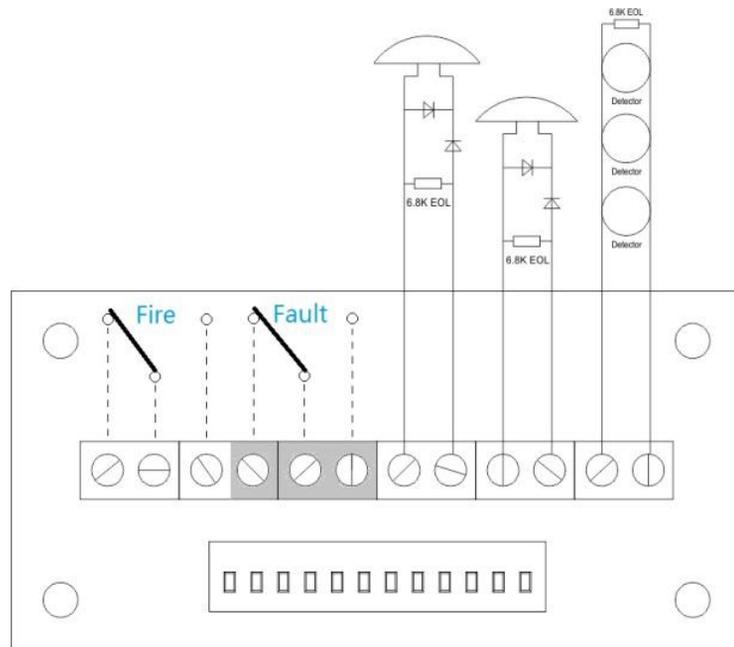


Figure 5 . Output terminals connection

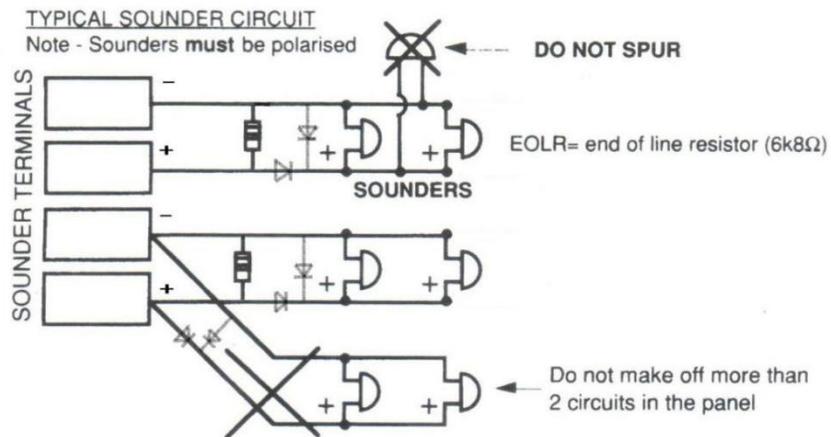


Figure 6 . Wrong connection of sounders

2 System installation

2.1 Installation checklist

- Prepare the site: Make sure the installation location is free from construction dust, debris, extreme temperature ranges and humidity.
- Unpack the equipment.
- Install the cabinet: See 'Installing the cabinet' for cabinet dimensions.
- Review wire routing: See page 6 (Wires connection).
- Connect the field wiring: See Figure 5.
- Check for opens, grounds, and shorts before connecting.
- Connect batteries.
- Connect ground then AC power, we suggest connect mains power by 16AWG(1.3mm²) wire.



Ensure that the AC circuit breaker is OFF before connecting high voltage wires (220-240 VAC) to the mains connector.

- Test for proper operation.
- If permissible, please use shielded wire for detectors and alarm devices connection, and buckle each wire out from panel to accessories or from anywhere outside of panel into the control panel by magnet ring.

2.2 Installing the cabinet

Cabinets can be surface or flush mounted to wall. See Figure 5 for framing and mounting dimensions.

Cabinet dimensions:

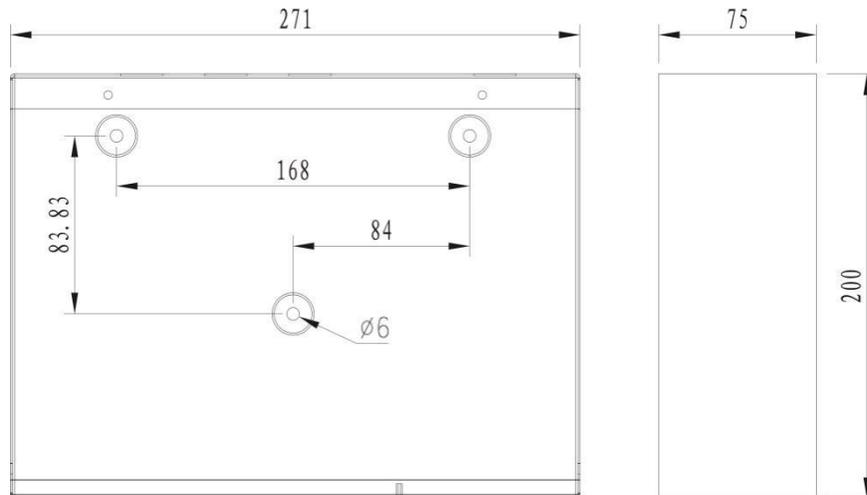


Figure 7 . 1 zone panel installation size

2.5 Wires connection

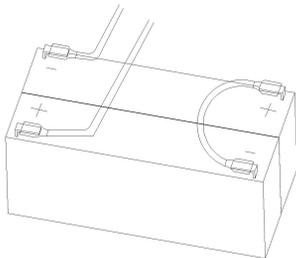
- Open the cabinet, connect main board to interface board with a 12-pin flat cable.
- Insert the black output wires of transformer to main board, red wires to EMI board.
- At last, connect the key lock to main board.

All terminals designed fool-proof. So you cannot plug them wrong.

2.4 Battery installation

The panel uses two lead acid gel 12V/2.3Ah batteries connected in series. Connect the batteries with the supplied free lead and the Batteries to the power supply unit with the red (positive) and black (negative) wires.

Then fix them by two right-angle metal plate with nuts.



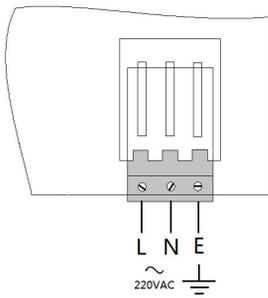
(Pay attention to the colours of + and - wires)

Figure 8 . Batteries connection

2.3 Mains connection

Use the 3 terminal to connect the AC power cable to the panel. Ensure that the power cable is safe to handle (has no power). Pay attention to the order of L/N/E, pull them in the 3 pin terminal (5mm space between) and screw down. Then pull the terminal in the 3 pin socket on EMI board.

The diameter of the wires must be between 0.75 and 2.5 mm².



(Ensure that there is no power when connect this terminal!)

Figure 9 . Mains connection

2.8 Initial Power up

Check and confirm all the wires are connected well. Supply the mains power, buzzer will beep for a short time, the mains on indication LED lights. No other LED lights, then the CIE works well. If you want to outage the CIE, need to stop the mains and open the cabinet, pull the batteries' red wire out.

3 Panel indication

3.1 Mains On

The Mains On LED means there is mains power for the CIE.

3.2 Battery/Power Supply Fault

If this LED light, Mains On LED light meanwhile, then you need to check if the batteries connected well or not. If this LED light, but Mains On LED off, it's telling you there is no mains power.

3.3 Sounder Fault

Just like the denotation, check the sounders connection now.

3.4 Zone Fire & Zone Fault

If you didn't touch the CIE and Zone Fire LED lights. Breaking out a FIRE. Tell other people in a loud voice, don't change any condition of the CIE. According to the actual conditions decide the next station, put out the fire or escape and ask for help.

If you pressed the Evacuate button, Zone Fire lights also.

Zone Fault means you didn't connected detectors with EOL well. Correct it.

4 Operation on the panel (need access level 2)

Turn access level 2 switch lock to "enable", allow control the panel now.

4.1 Access level

Access level 1: can inspect the panel only, any operation conductively closed. Now the access level 2 switch lock turned to "disable", door is closed.

Access level 2: turn access level 2 switch lock to "enable", but the door closed. Now you can control the panel by buttons.

Access level 3: open the door by cross screwdriver, you can check if panel working well, can change batteries or do some other safe operation. But if you are not professional, please don't do this!

4.2 Function of buttons

4.2.1 Reset

For initializing all the condition of the CIE.

4.2.2 Silence

If buzzer or sounder alarm, you can press the Silence button to keep you did not disturbed.

4.2.3 Evacuation

Enter to evacuation condition, all outputs likes a zone fire alarm.

Use the function for accessories connection test or quality detection.

5 Electrical specifications

Mains supply	110VAC/220VAC(-15%,+10%).50/60 Hz
Detectors connection allowed each Zone	20 (including MCPs)
Sounder output (Bells)	2*200mA maximum
Batteries	2*12V 2.3Ah sealed lead gel , self-regulated*
Battery low-voltage protection	21V
Power rating	Imax.a=0.1A;Imax.b=0.4A;Imin=0.08
Zone alarm current	8~20mA
Fire Relay Capacity	1A@30VDC maximum
Fault Relay Capacity	1A@30VDC maximum
EOL resistor for Zones	6.8K Ohm 1W
EOL resistor for outputs	6.8K Ohm 1W
Fuse for AC Power	1 A/ 250V glass tube fuse slow blow 5 X 20mm
Fuse for DC Power	1 A/ 250V glass tube fuse slow blow 5 X 20mm
Environmental	Class A temperature range: -5 to 40°C (23~104°F) Humidity: 5 to 95% RH, non-condensing
Terminal blocks rating	All terminals rated for 12 to18 AWG(0.75 to 2.5 mm ²)

Table 1 . Electrical specifications

Warning: Don't pull in or out any cable or board when power is on!

6 Maintenance

Before commencing testing, notify all personnel within the areas where the alarm sounds or locations that monitor alarm and trouble transmissions that testing is in progress.

- Records of all testing and maintenance shall be kept as required by the authority having jurisdiction.
- Required tools:
 - Slotted screwdriver, insulated
 - Cross screwdriver, insulated
 - 6.8K Ohm, 1 W resistor
 - 4.7K Ohm, 1W resistor
 - 1N4007 diode
 - Wire stripper
 - Digital multimeter
 - Tweezer
 - Panel's enable switch-lock key
 - Panel's door key
 - Glass tube fuse: 250V/ 1A & 3A
- A complete check of installed field wiring and devices should be made at regular intervals. This includes testing all alarm and supervisory initiating devices and circuits.
- Panel operation should be verified in the alarm, trouble and standby modes.
- To ensure that the panel can be powered when primary power is lost, the batteries should be periodically inspected, and replaced (at least) every three years.

Batteries Maintenance

1. The batteries must be inspected semiannually as follows:

- Visually to verify that they are free of damage.
- Voltage tests under load.

2. An annual charger test.

The system is performing an automatic battery test by loading the batteries with the system current and measuring the voltage. In case of a battery or charger problem a battery fault will eventually be indicated.

Preventative maintenance schedule

For detector sensitivity and functionality testing, refer to the detector manufacturer's installation instructions.

Tests for ground, open, and short require that you test ground fault, open circuit, and short circuit indications.

Tests for system fault/ disablement condition furthermore occur to corresponding indications.

It is recommended that all tests from the user should be performed periodically, in order to detect any malfunctions of the system.

Please don't shutdown the panel at will !

Note:

This apparatus should be installed by the guidance of a competent person.

After hearing the fire alarm, you should call for help and timely evacuation from the fire prevention channel. If you can please timely alarm.

Appendix A: Weight

Weight		
Panel	weight	
	with battery	without battery
1 Zone Panel	4.5Kg	2.7Kg

Table 2 . Size and weight

Appendix B: Record

Installed by

Name: _____

Company: _____

Address: _____

Phone: _____

For service contact

Company: _____

Address: _____

Phone: _____

Acceptance Inspection by

Date: _____

Detect Area: _____

For Inquiries, Please contact:

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Vladimira Popovica 6/6/A606

11070 Novi Beograd, Serbia

Tell: +381 11 318 68 68

office@securityshop.rs

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