



TFP 802 / 804

2 / 4 Zone Conventional Fire Alarm Panel

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TECHNICAL FEATURES*

Zone	2 (TFP 802) / 4 (TFP 804)
Battery	1 pc. 12V 7Ah, sealed type, lead acid
Number of detectors	Up to 30 pcs. for each zone
EOL resistor	6,8kΩ
Power supply	With 230V 25VA internal transformer 250mA internal fuse protection
Power output	12/24V DC selectable, automatic fuse TFP 802: 500mA 12V or 300mA 24V TFP 804: 500mA 12V or 500mA 24V
Siren output	24V DC, 6,8kΩ End of line resistor
Fire relay	30V 1A NC/NO dry contact
Trouble relay	30V 1A NC/NO dry contact
Humidity	95% RH (max)
Temperature	-10°C ~ 55°C (14°F ~ 131°F)
Dimensions	212 x 310 x 85 mm (W x H x D)
Weight	2,5 kg (without packing and battery)

* May be changed without notice.

WARNINGS

Do not start the mounting unless read this manual completely.

- Panel includes highly sensitive electronic circuits. Because of that reason, do not start to use unless read this manual completely.
- In case of any failure occurred or need to maintain of the panel; All these operations should be done authorised technical staff only.
- All cabling should be done as indicated this manual.
- Do not attempt to change wiring while system under power tension.
- The panel must be earthed.
- NEVER APPLY 230V CITY MAINS NETWORK VOLTAGE on any terminal of the electronic board.

WORKING FEATURES

- Needs only one 12V/7Ah battery.
- TFP 802/804 Conventional Fire Alarm Panel has 2(TFP802) / 4(TFP804), 24 V DC conventional zones.
- Has automatic battery charge and control circuit.
- Has separate fire and trouble LEDs for each zone.
- Detector and button lines with siren power output are supervised by end of line resistors.
- Test feature allows you to test a requested zone.
- Any zone can be bypassed.
- Has 1 pcs 24 V DC 500 mA siren output, 2 pcs 30V DC 1A dry contact relay output (fire and trouble) and 1 pcs 24V DC 500 mA auxiliary power output.

MOUNTING

The chosen site for the mounting of the panel must be clean, dry and not subject to shock or vibration. The panel must not be mounted near to sources of excessive heat or cold (see the specifications).

Mark the position of the fixing holes according to the respective Annex, ensuring that the wall is flat at the chosen location. Screws or bolts of a minimum of 4mm diameter must be used to mount the cabinet in all mounting positions. Panel cable entries from back and top of the panel are available for easy mounting. Drill and plug the wall then fix the cabinet using all fixing points.

INPUTS AND OUTPUTS

Mains Power: The system is designed to operate with 230V AC 50Hz. Earth connections must be made to earth terminal and earth resistor must be less than 10ohm. The mains supply of the panel must be via an independent self-resetting fuse rated 3A 230V AC. This fuse must be separate from the other fuses and a caution note should be written such as "ATTENTION! FIRE ALARM CONTROL PANEL'S FUSE. DO NOT CLOSE" to ensure safe operation of the panel. Recommended cable types for mains power supply are 3x2.5 NYM or 3x2.5 NYA.

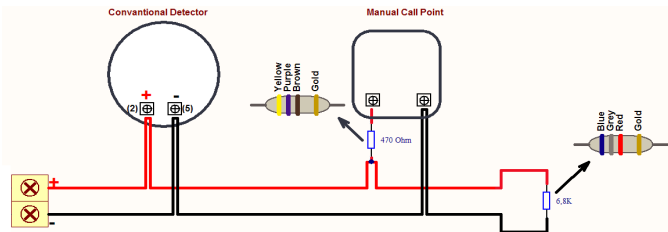
Do not connect or disconnect zone lines, mains supply input and PCB connections while the panel is energised to avoid an electric shock. Do not intervene the system for your life and property security.

WARNING !
Do not use the device without earth connection.

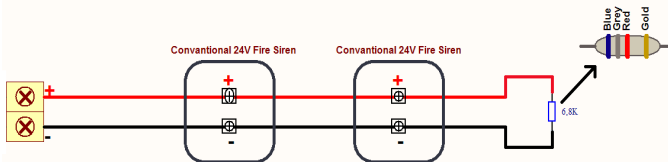
Battery Inputs: Batteries provide continuity of operation with 12 V DC 7Ah sealed type battery during the mains power supply cut. The power supply can charge automatically. In case of faulty connection, panel may be damaged.

WARNING !
This device uses 1 pc. 12V 7Ah battery.
Do not use different size indicated.

Zones: Zone circuits provide supply to detectors and manual call points, and conduct fire, short circuit and open circuit signals. Each zone is capable of hosting up to 30 fire detectors and infinite number of manual call points. The characteristics of the cable is dependant on the length of the circuit: for a circuit of 0-500 meter long, use 1x2x0.8+0.8J-Y(st)Y cable, for a circuit of 500-1500 meter long - 1x2x1.5+1.5J-Y(st)Y. Each zone is capable of connection up to 30 pcs. fire detectors. A 6.8KOhm resistor must be connected to unused inputs



Siren Output: There is 1 pc. 24V DC 500 mA (300mA for TFP 802) siren output with automatic fuse protected. Overloading the output will cause fault on panel. The siren output is monitored with end of line resistor, in order to detect short circuits and trouble of breaking lines. Cable of the siren power line should be 2x1.5 mm².



12 / 24 V DC Auxiliary Power Output: There is 1 pc. 12/24V DC 500 mA (For TFP 802 500mA @12V, 300mA @ 24V) power output with automatic fuse. Selectable of 12V or 24V. Overloading the output will cause fault on panel. In case of mains failure, power output will be supplied till battery ends.

Relay Outputs: Panel has 2 pcs. 30V DC, 1A dry contact relay outputs which are fire relay (normally without power) and trouble relay (normally with power).

Fire Relay: While pressing on "Alarm" button or when receiving fire alarm from detectors, it will change contact and get active position in order to use any other systems by remote control. In order to return to its initial position of active relay, fire condition must be ended and press on "Reset" button onto the panel.

Trouble Relay: It changes contact and get active position during trouble warning and without power panel. Trouble Relay returns to its initial position automatically as soon as trouble condition ends.

Warning ! : The relays on the board are small current signal relays. If need to command higher voltage or current devices, please use the appropriate devices such as contactor. Otherwise panel may be damaged which is out off treaty of guarantee.

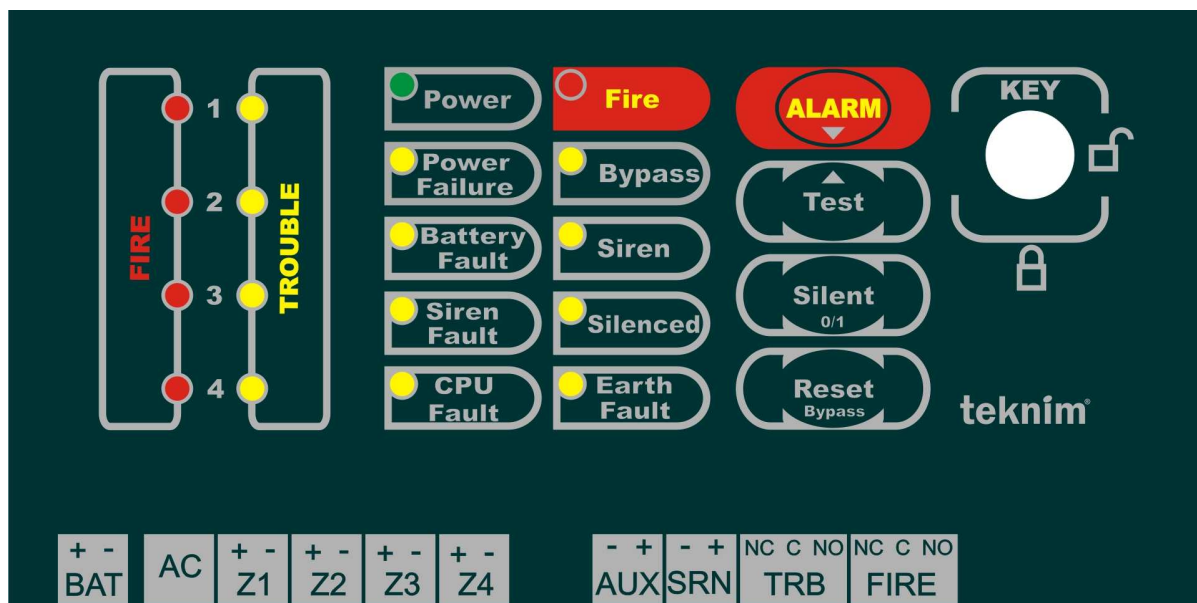
BYPASS

1. Switch the key to red position.
2. While pressing "Bypass (reset)" button, change the key position to the green and release the "bypass" button. Device enters the bypass mode and bypass LED starts the blinking. At the same time 1st zone's yellow trouble LED starts blinking. If there is any zones bypassed before, indicates with red fire LEDs.
3. By using (Alarm) or (Test) buttons, select the zone which to be bypassed. Press "0/1" (Silent) button. "Fire" LED which is opposite of selected zone, lights up. "0/1" button act as select/unselect bypassing mode each pressing.
4. Repeat the step 3 to select another zones if need to be bypassed.
5. Switch the key to red position. The bypass setting completed. The "Bypass" LED becomes continuously on to indicate one or more zones bypassed.

ZONE TEST FEATURE

TFP 804 has a test feature that allows only one person can test the whole system. With this feature, active the detector by selecting the zone which will be tested. Panel stops the sound and resets itself automatically. Do not care about the sounds coming from other zones.

1. Switch the key to red position.
2. While pressing "Test" button, change the key position to the green and release the "Test" button. Device enters the test mode and 1st zone's yellow Trouble LED starts the blinking.
3. By using (Alarm) or (Test) buttons, select the zone which want to be tested.
4. Provide the zone under test to gives alarm. The control panel starts the beeping for a few seconds. After than reset the zones automatically. Manually resetting or stopping the sounder not necessary. Other zones not cause the panel to alarm.
5. Repeat the step 3 and 4 in order to test another zones.
6. Jump step 3 to test another zone or turn the key to vertical position to terminate test mode.



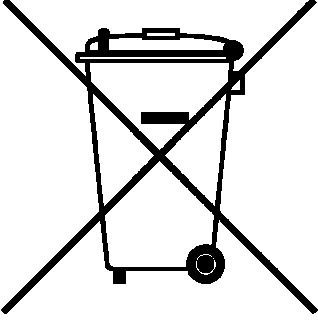
BUTTONS:

BUTTON	LEVEL 1 (KEY VERTICAL)	LEVEL 2 (KEY HORIZONTAL)	EXPLANATION
ALARM		Trigger the fire alarm	
TEST	During 5 seconds all LEDs become bright, buzzer starts to sound.	During 5 seconds all LEDs become on, buzzer and siren start to sound. Also fire and trouble relay become energised.	It is used in order to test sound and lights warnings.
SILENT	Silence the buzzer only.	Silence buzzer and siren	Silence cancel, while pressing again.
RESET		Return to the panel normal working mode, reset the detectors, stop the alarm.	It takes 5 seconds, during this time power light is blinking.

LEDs

LED	CONTINUOUS LIGHTING	FLASHING
FIRE 1..4		Fire signal from indicated zone.
TROUBLE 1..4	Trouble on indicated zone	Bypass or test mode
Power	Normal power supply	Device are being resetted
Power Failure	Cut off power	
Battery Fault	Trouble with battery	
Siren		No need to be siren on
CPU Fault	Trouble with CPU	
Fire		Alarm on
Bypass	Has at least one bypassed area on the panel	Bypass mode
Siren Fault	There is a problem with siren or its cable	
Silenced	Silenced siren or buzzer	
Earth Fault	Inactive on this model	Inactive on this model

DISPOSAL NOTICE



Disposal Notice

In accordance with **directive 2002/96/EC of European Parliament and the council** of January 27, 2003 on Waste Electrical and Electronic Equipment (WEEE).

Products labelled with the symbol of crossed out wheeled bin must not be disposed of with unsorted municipal waste. For this purpose, the local authorities have set up collecting points. Please ask your municipality which possibilities are offered for separate collection of WEEE.

This way, you make your contribution to the reuse or other forms of use of WEEE to protect our environment and health.



Thank you



Complies
EN 54 - 2
EN 54 - 4

MANUFACTURER

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