ELEKS®

Efire-ECP-RP

4 ZONE EXPANDABLE FIRE ALARM REPEATER PANEL

INSTALLATION AND USER'S GUIDE

EN 54-2 **EN 54-4**

DENETİM BELGELENDİRME ISO 9001

WARNING: PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE YOU OPERATE OR COMMISSION THE DEVICE.

SPECIFICATIONS

The **Efire-ECP-PR** Conventional Fire Notification Repeater Panel can only be used with the **Efire-ECP**.
It supports the features indicated below;
·The basic 4 zones can be converted into 8, 12 and 16 zones by expanding these 4 x zone boards.
·Security Level access is provided with keylock.
·Easy tracking possibility with alarm and failure indicators for each zone.
·The delays can be activated and deactivated (Night/Day Mode).
·Duration changes can be performed with the **Efire-ECP**.
·A separate button for each process and easy usage.
·Without intervention tracking possibility for all incurred events.
·Reporting of all events until the last resetting.
·EN 54-2 compliance.

TECHNICAL FEATURES

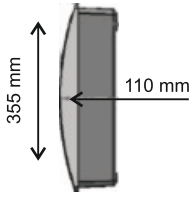
Supply:	24 V DC Adapter
Max. Current:	0,2 A DC
Zone Number:	Expandable as 4, 8, 12, 16 zones
Body Material:	ABS
Installation Type:	Surface Mounted or Flush Mounted
Operating Temperature:	(-10°C) – (+55°)
Dimensions:	440 x 355 x 110 mm
Weight:	2 kg

WARNINGS

·Operate the product only with the suggested adapter.
·The technical features of the product aren't affected by temperature, humidity, natural and artificial light changes within the ranges indicated in the specifications.
·The product doesn't require periodical maintenance. It is recommended to subject it to periodical annual controls.
·The alarm system won't eliminate any danger.
·Avoid contact with water and chemical cleaning agents.
·Protect against falling, impacts and humidity.
·Don't touch it with wet hands.
·Protect against unauthorized access.
·The maintenance of the product must be performed only by authorized personnel.
·Never use a driller when there are electronic boards (PCB) inside.
·The Line End Capacitor in the packaging shall be used. The Poled Electrolytic Capacitor possible to be used when this should be lost may never be connected reverse.
The panel will trigger an alarm in case of reverse connection.
·Keep the room, where the panel is installed, aerated.
·Protect the power cable against crushing and breaking risks.
·Take care on that no liquid or other objects possible to cause short circuit enters into the device due to fire and electrical shock risks.
·Contact your seller or authorized service in case of any defect.
·Our company will not accept any responsibility when the warnings are not complied with.

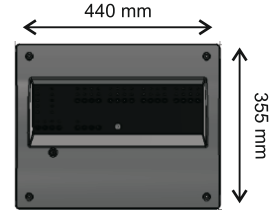
PANEL INSTALLATION

The **Efire-ECP-RP** has a design, which is compliant with both Surface Mounting and Flush Mounting. There is space left on the back and top for cable entrances. Never use a perforating device (driller etc.) when there are electronic boards (PCB) inside.
Per ZONE = Max. 32 Detectors + Unlimited Manual Call Points 4 x screws must be used at the marked positions for surface mounting. (We recommend to use the template in order to determine the location easily.)



Side View


Top View



Front View

COMMISSIONING

The **Efire-ECP-RP** is manufactured ready-to-use as a standard conventional Fire Alarm panel. In its default settings are;

- All zones, sounders, auxiliary 24 V DC output, relay outputs ready in the system active.
- There are no delays related to the sounders and relays

FAILURE INDICATORS

The buzzer is enabled along with the failure indicator (yellow LED) on the **Efire-ECP-RP** with regards to any situation. The buzzer may be disabled by pressing on the Buzzer Off Button.

Failure (Yellow): The failure indicator will constantly light yellow in case of any existing failure of the Fire Notification System.

Zone Failure (Yellow): A long flash (1 sec) will light up when there are any short circuits, open circuits in the zone line and when there should be no LINE END CAPACITOR installed. A short flash (0.5 sec) will light up until resetting when the failure is eliminated.

Energy Failures

Power Failure (Yellow): This will light up constantly in case of mains cut-off or tripped main fuse. A short flash (0.5 sec) will light up until resetting when the failure is eliminated. (Contact the Technical Service when there are no problems at the mains or the fuse.)

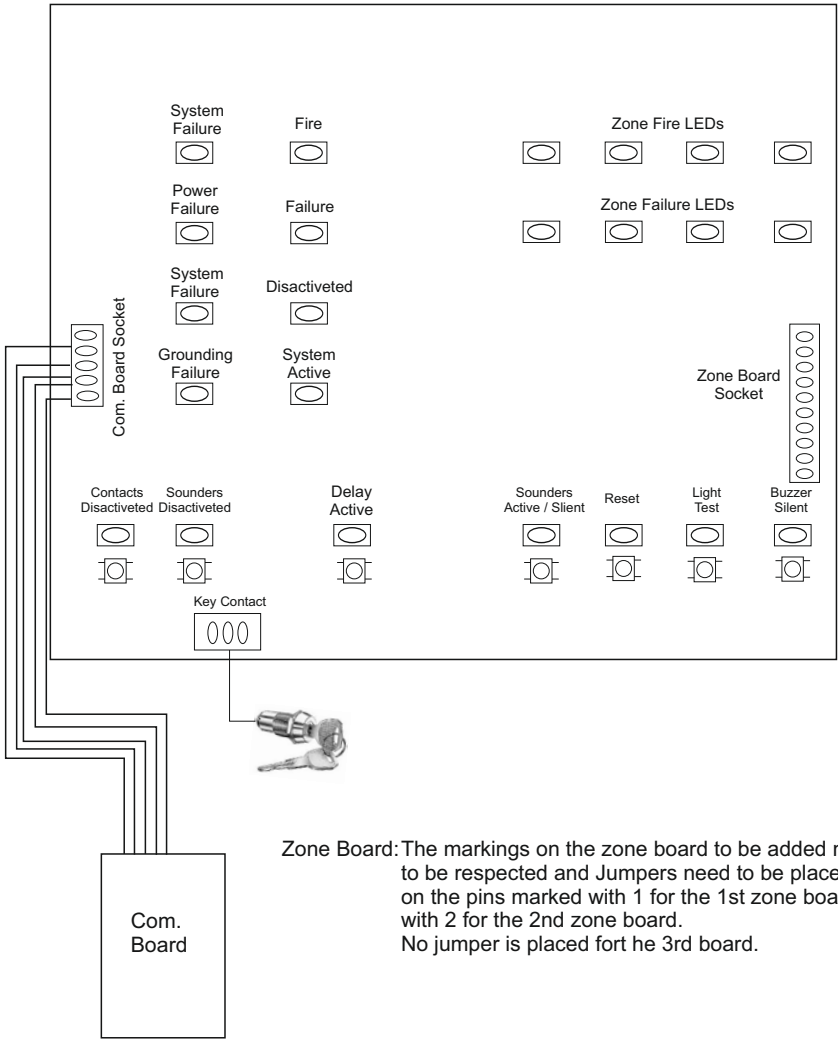
24 DC (AUX) Failure (Yellow): Indicates the short circuit at the 24 V output. A short flash (0.5 sec) will light up until resetting when the failure is eliminated.

Grounding Failure (Yellow): Indicates a power leakage or that the grounding line is not connected correctly. A short flash (0.5 sec) will light up until resetting when the failure is eliminated.

System Failure (Yellow): Notify the Technical Service.

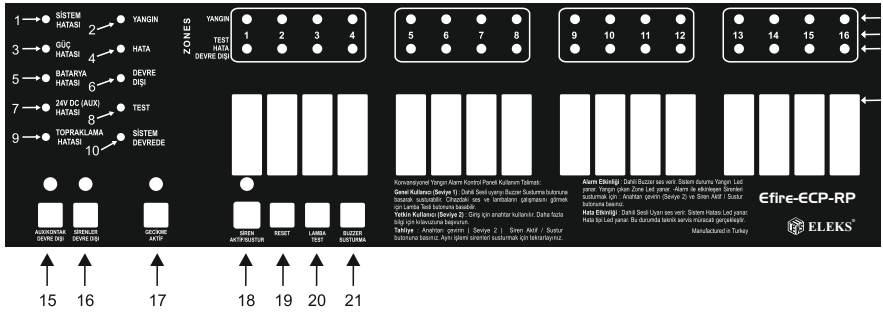
Note: The yellow colour is not always a failure.
The yellow colour is also used for disabled conditions.

WIRING DIAGRAM



Zone Board: The markings on the zone board to be added need to be respected and Jumpers need to be placed on the pins marked with 1 for the 1st zone board, with 2 for the 2nd zone board.
No jumper is placed fort he 3rd board.

MEMBRANE DESCRIPTION



1.System Failure : Is on when there is a failure preventing the correct operation of the panel

2.Fire : Is on in case of a Fire Alarm

3.Power Failure : Is on in case of mains or supply failure

4.Failure : Is on in case of any failure

5.Battery Failure : Is on in case of a failure of the batteries or the charging circuit

6.Inactive : Is on when there is something manually deactivated

7.24 VDC (AUX) Failure : Is on when there is a short circuit at the 24 VDC output

8.Test : Is on when there is a Zone being tested

9.Grounding Failure : Is on when the grounding connection is not made correctly

10.System Active : Is on as long as the system is operating

11.Zone Red LED : Is on when signals are being received from the respective zone

12.Zone Number : The number of the respective zone

13.Zone Yellow LED : Is on when Failure signal is received from the respective zone or when this is Deactivated

14.Zone Naming : Is used to name the building section of the installed zone

15.Aux Contact Inactive LED Button : Is on when the Fire and Failure relays are deactivated

16.Sounders Inactive LED Button : Is on when the sounders are deactivated

17.Delay Active LED Button : Is on when the programmed delays are applied at the Sounder and Relay outputs

18.Sounder Active/Silent LED Button :Is on when Sounders are triggered

19.Reset Button : Is used in order to reset the system

20.Light Test : Is used in order to test the indicators

21.Buzzer Silence : Is used in order to silence the internal buzzer

REPEATING PANEL USAGE

There are 2 different usage levels and these are tracked via the System Active LED.

1st Level when constantly on
2nd Level when long flashing

1. Light Test (1st and 2nd Level)
The light test button is pressed and all illuminated indicators and the buzzer are activated for a short term.

2. Buzzer Silence (1st and 2nd Level)
The audio warning of the panel is deactivated temporarily by pressing on the Buzzer Silence Button in case of a Failure or Fire.

3. Sounder Active/Silent (2nd Level)
This is used order to silence the sounders when the risk is eliminated.
It is used in order to activate the sounders when an evacuation is intended.
(The sounders trigger automatically in case of fire.)
The Sounder Active/Silent LED enables along with the sounders.

4. Delays Active/Passive (2nd Level)
It provides that the delay durations set previously for the sounder and relay outputs are activated or deactivated. The sounder and relay outputs
will react after the set delay duration when the Active/Passive LED is on.
(The default value is set to 15 seconds. Contact the technical service for changes.)

5. Deactivated (2nd Level)
a.Sounders Deactivated
The operation of the sounders can be prevented with the Sounders Deactivated Button.
The sounders will not trigger when the Sounders Deactivated LED is on.
b.Aux Contact Output Deactivated
The operation of the auxiliary contact outputs can be prevented with the Aux Contact Deactivated Button.
The auxiliary contacts will not change position/provide output when the Aux Contact Deactivated LED is on.
c.Zone Deactivated
The respective zone is deactivated or reactivated with the Zone Deactivated Button.
The zone is deactivated when the Zone Deactivated LED is on.
No failure and fire signal will be received by the panel from the deactivated zone and the panel output will not be influenced.

6. Reset (2nd Level)
This deletes the report notifications and in case of fire, the fire notifications incurred on the panel after the solution of the problem in cases like failure, fire on the panel.
It resets the panel to the last settings.

SERVICE REQUIRING FAILURE CASES

Since a wrong intervention is likely to cause other failures, please call the service when;
·a non operating indicator is determined during the Light Test process,
·the power cable or plug should be damaged,
·any liquid enters into the device or when something should fall on
·it is subjected to water or rain
·the device fell down or the box is harmed
·there is a perceivable performance change at the device
·the device doesn't operate as indicated.
·All parts to be used (battery, supply unit etc.) must be as indicated in the technical specifications.
Eleks Ltd. Şti. will not assess situations like the usage of the device except the conditions indicated, the non-compliance with the warnings, intervention to the device by unauthorized persons, wrong electrical installations within the scope of the warranty.

FREQUENTLY ASKED QUESTIONS

Q1 What means the short flashing of the LEDs?
A1 The LEDs will flash in two different ways and these are explained below;
Long Flash (1 sec): when there is a failure in the zone, when the key is in the green position.
Short Flash (0.5 sec): when there is any failure and amended again until the system is reset.
This sign is the Reporting process.

Q2 All connections are complete, but the panel sets over to fire status?
A2 The panel will set over to alarm when the used Line End Capacitor at the ZONE connections are poled electrolytic capacitors,
connected reverse.

Q3 The buttons don't function?
A1 Turn the key to the green position.

Q4 Why do we need to used with a key?
A4 By setting an access prevention with a key in order to avoid a malfunction of the fire system in case of an unauthorized access, it is aimed to allow the authorized person to use the panel easily with a single movement.

Q5 How can I deactivate a zone?
A5 The authorized person can deactivate the zone by turning the key to the green position and pressing on the button of the zone intended to be deactivated. The yellow LED will be on uninterruptedly while the zone is deactivated.

Q6 How can I deactivate the contact and sounder outputs?
A6 It is possible to deactivate all Main Panel Fire and Failure relay outputs with the Aux Contact Deactivated button and the Sounder outputs with the Sounders Deactivated Button on the left lower side by taking the key to the green position by an authorized person. The yellow LED will be on uninterruptedly in all deactivated situations.

Q7 How can I connect the repeating panel?
A7 Please refer to the user's guide of the repeating panel.

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