



# PRODUCT CATALOGUE



## OUR BRANCHES

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JINDUN  
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SECURITY  
DETECTION  
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FPA  
Fire Protection  
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SITERWELL

CE

SZUTEST

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LPCB



Dear Customers,

Our company have been succesfully operating it's professional activities in the field of Fire Detection, Extinguishing and Security since 1991.

Our company succesfully provides services in projecting, exploration, pricing, sale, installation, mounting, commissioning, periodic maintenance, after-sales. With it's sales-project plus technical stai ELEKS, is one of the few companies in Turkey that can serve in all these fields.

Our company Which is manufacturer, exporter and importer have been serving in the area of fire detection, extinguishing, gas detection, routing, systems and that is why have been preferred by contracting firms, government agencies, contractors and private Project offices. Eleks exclusively serves when it comes to detection, design, training, sales, after-sales service, maintenance, engineering and supervision...

Also with branches in PERPA , ANKARA, IZMIR, ANTALYA whole service is spread all across the country.

## Efire Series Conventional Fire Detection and Warning Panels (4-8-12-16 ZON)



Conventional Fire Detection and Warning Panels manufactured with ECP Series new generation microprocessor technology are 4 zones and can be expanded up to 16 zones with 4 zone of expansion cards. 32 detectors and unlimited number of call points can be connected to each zone (Certified with EN54-2 and EN54-4 Standards). Having the affordable, stylish new design, modular, user friendly, ease of use features; these panels are preferred in many medium and large enterprises. There are 8 manually operated keys, 1 for each zone on the panel which are SOUNDER ACTIVE / SILENCE, BUZZER SILENCE, RESET, LAMP TEST, AUX / CONTACT DISABLED, SOUNDERS DISABLED, CONTROL, DELAY ACTIVATED. In addition, there are FIRE, FAULT, DISABLED, SYSTEM ON, TEST, SYSTEM FAULT, POWER FAULT, BATTERY FAULT, 24V DC (AUX) FAULT, GROUNDING FAULT leds on the panel.

Both alarm (Red) and fault-disable-test (Yellow) LEDs are available separately for each zone. There are security keys and 3 different user levels against unauthorized persons. Each zone can be deactivated temporarily if necessary, as well as all at the same time. 2

sounder outputs of the panel with short circuit protection, for fire and fault relay output, 24V DC Aux Backup Supply output. Delays of Sounder and Relay outputs can be arranged separately. (Settings can be programmed as 15-30-45-60 seconds). The panel works with 24V and 2 12V batteries are connected to each panel. The main features of the product are the ability to monitor all events that occur without intervention, and the reporting of events until the last reset.

**Certified with EN-54-2 and EN54-4 standards.**

### OPTIONAL FEATURES

- \* Repeating panel connection capability
- \* Additional 4-relay cards for each Zone
- \* Of 4 or 8 relay boards for fire or fault relay output
- \* Telephone call module and communication module (supports up to 8 Zones)
- \* Sounder output expansion card
- \* Zone Relay Card (In case of an alarm on the zone, the relay triggers)

### TECHNICAL SPECIFICATIONS

Main supply	230 VAC @ 50 Hz
Max. Current	1,7 A @ 230 VAC
Operating voltage	21-30 VDC
Main Insurance	4 A
Battery	7 Ah@2x12VDC (Max.) - 2Ah@2x12VDC (Min.)
Zone Number	Can be increased to 4,8,12,16 zones.
Zone Capacity	Each zone has 32 detectors and Unlimited call points
Zone Alarm Current	90 mA (Max.)
Quiescence Current	50 mA
End of Line Capacitor	100 uF/35 VDC Capacitor.
Fire Warning Resistance	470-680 Ω
Sounder output	2X 27.5 VDC 500 mA (short circuit protected)
External supply output	24 VDC 500 mA (short circuit protected)
Fault relay	Nc ve No 1A@230 VAC
Compatibility	Compatible with all kinds of conventional devices
Protection Class	IP30
Enclosure Material	ABS
Mounting Type	Surface or built-in
Operating temperature	(-10°C) - (+55°)
Relative Humidity (Max.)	95 %
Weight (Without Battery)	2,20 Kg
Dimensions	440x355x110 mm
Standard	EN54-2, EN54-4

## Efire Series Conventional Repeater Panels (4-8-12-16 ZON)



ECP series Conventional Repeater Panels are 4 zones and can be expanded up to 16 zones with 4 zone expansion cards. For the Efire series conventional panels, it provides remote monitoring and control by mounting in predetermined locations without going to the central panel. Thus, it enables us to see the fire event much sooner from these repeater panels and to reach the fire in a shorter time. 7 manual keys on the conventional panel: SOUNDER ACTIVE / SILENCE, BUZZER SILENCE RESET, LAMP TEST, AUX / CONTACT DISABLED, SOUNDER DISABLED, DELAY ACTIVE; We can monitor and intervene all fire, fault, malfunction and alarm events on this panel. There are two different user levels, General User and Authorized User.

**E-NW-485** Main Panel and Repeater Panel Communication Board. It is a communication card that can be used to monitor and control the Main Panel over the Repeater Panel. With

RS 485 connection cable, It reaches a max distance of 1,000 meters. Available as Standard on Repeater Panels and Optional on Main Panels. Communication cards are required in both panels to operate the system.

### TECHNICAL SPECIFICATIONS

Supply voltage	25 - 30 VDC
Supply Current	35mA @ 28 VDC
Base Connections	Supply +, Supply -, RX, TX
Protection Class	IP30
Enclosure Material	ABS
Mounting Type	Surface or built-in
Relative Humidity (Max.)	95 %
Operating temperature	(-10°C) - (+55°)
Weight	2 kg
Dimensions	440x355x110 mm

## Efire Series Conventional Type of Detectors



Models of Conventional Smoke, Fixed Heat 58° (A2 Class)-82°(B Class) and combine detectors are available.

With affordable prices, aesthetic appearance, Efire detectors are selected in many medium and large scaled corporations. In order to easily remove and fit the detector head, pad detector has been designed specifically. Detector head can be removed or fitted easily with a light twisting movement.

Efire detectors are made of ABS plastic and all components inside the detector are protected against dust and humidity with Special Surface Mount Technology.

**Certified with EN54-5 and EN54-7.**

### OPTIONAL FEATURES

- \* It can work with 48 V.
- \* The feature of connecting remote indicator
- \* Relay Output (NO / NC) options
- \* In case of quietness green LEDs; in case of alarm situation red LEDs operate as flasher.
- \* Against humidity and corrosion, there is PCB's special preservative coating.
- \* High immunity against electromagnetic fields.
- \* Easy assembly and disassembly.
- \* Dual-LED that provides 360° viewing angle.
- \* Are compatible with all other conventional panels and devices.
- \* Stylish design, easy installation and simple usage.

### TECHNICAL SPECIFICATIONS

Quietness Current	Max 90µA
Alarm Current	55mA@24V DC
Working voltage range	12-24V DC
Operating temperature	(-10 °C)-(+55 °C)
Relative humidity	95%
Dimensions	ø 100, h50 mm
Weight	100 gr

## Efire-EYIB Conventional Manual Call Point



Fire alarm buttons, in a nutshell, are products which activate the alarm system manually and allow the staff to provide warning in case of a fire. These buttons should be mounted in a good way at points in a way to give alarm without walking more than 30 meters from any point, must be at a height of 1.4 meters from the floor and at easily accessible points without blocking. Efire-EYIB fire alarm button allows the operation of fire alarm manually. Efire-EYIB Fire Alarm Button is in compliance with EN54 -11 CE standard and can meet all technical requirements of many different sectors as well as in public and private institutions. The device is alarmed by pressing the warning area by finger. The alarm given by the device can be monitored from the fire alarm panel in addition to position-changing warning field and red LED indicator. Its assembly can be made by surface-mounting or recessing. It can be connected directly to the detector zone line, its assembly is very simple and has a red LED on it indicating the alarm status \*. System testing and resetting can be made by virtue of a special key. There is additionally an optional transparent button cover to prevent the button being pushed by malicious individuals, children and students or flying objects by accidents (e.g. in indoor sports centers). Each Efire-EYIB Fire Button is packed and sold with its original box.

### Certified with EN54-11 Optional Options

#### OPTIONEL CHOICE POSIBILITY

- EFIRE-EYIB-EH Extinguisher Hold Button,
- EFIRE-EYIB-ES Emergency Stop Button,
- EFIRE-EYIB-S Gas Release Button,
- EFIRE-EYIB-Y Emergency Exit Button.

### Certified with EN54-11 Optional Options

## PRODUCTS FEATURES

- \* Modern and aesthetic appearance
- \* Resettable front glass for operation
- \* Operation Test Key
- \* Suitable inputs for wiring
- \* Built-in 470 ohm resistor
- \* 12-24VDC and NC / NO options
- \* Easily mountable mounting case
- \* NC / NO contact output
- \* Optional transparent protection cover

## TECHNICAL SPECIFICATIONS

Model	Efire-EYIB / NC-NO
Product Type Category	Tip A / Closed Area
Activation Signal	Red LED / -
Alarm Resistance / Current	470 O/ 0,5A(max.)
Operating voltage	12 / 24 VDC / 110 - 230 VAC
Weight	121 gr.
Dimensions	87x86x56 mm
Operating temperature	(-10) - (+55) C
Relative Humidity (max.)	95%

## Conventional Efire Series Disabled Emergency Call Button

**Efire-EYIB-DPA:** Conventional Emergency Call Button, with Protection Transparent Cover.

**Efire-EYIB-NoNc-DPA:** NoNc Emergency Call Button, with Protection Transparent Cover.

Disabled toilet alarms with Protection Transparent Cover are for emergency situation (s) such as a disabled person when slipping and falling, in result; needs help to stand up. The alarm is connected to an external source. (It is usually attached to the building's reception area or security team.) In addition, the product is roped.

The rope's length is 2 meter and the its length can be adjusted optionally.





## Conventional Electronic Fire Warning Sounders

### AS1224 Conventional Electronic Fire Warning Sounder

As 1224 Electronic Fire Alarm Sounder is designed to give audible warning in fire detection and alarm systems. With its aesthetic appearance, high sound output and low current consumption, it can be used in both conventional and addressable systems. As 1224 is made of ABS plastic material in red color with a mount case and has an easy installation. 24 VDC and 220VAC options are available. As 1224 electronic siren can be used in wide range of buildings. All of the components on the sounder is formed specially for both industrial and commercial plants. Each 1224 electronic sounder is packed and sold separately. It has flame retardant properties according to UL94 Standard.

**Certified with EN54-3 standard.**



#### Technical Specifications

Model	AS1224
Supply Voltage	12/24V DC
Supply Current 12/24V	8 / 20mA
Noise Level 12 / 24V	90 /100 dB/m(A)
Operating temperature	(-10°C) - (+55°C)
Max. Relative Humidity	95%
Dimensions	0: 90, h: 65mm
Weight	120 gr.

### AS1224-LED Electronic LED Sounders

AS1224-LED is designed for systems that only audible alarm is not enough. For example if very high level of noise in operation, in the production facilities where it is necessary for the protection of employees' ears AS1224-LED sounders have visual function. It is suitable to use in places where the elderly people and hearing impaired people lives. AS1224-LED sounders can be also used in facilities with dangerous to enter rooms or sections. It is demanded product because of easy installation option, aesthetic look and low price. For interior applications low profile sounder base needs to be preferred. All of the electronic components on the LED siren are protected for the applications in the industrial and commercial facilities. 24V and 230V options are available.

**Certified with EN54-3**



#### Technical Specifications

Model	AS1224-LED
Supply Voltage	24VDC
Supply Current	34mA
Sound Level	100 dB/m(A)
Indicator	8 Red LEDs
Operating temperature	(-10°C) - (+55°C)
Max. Relative Humidity	95%
Dimensions	0: 90, h: 65mm
Weight	120 gr.

### Efire-EFB-6 "Fire Bell 6"

It is an electromechanical sounder produced to give early warning. The application area of the Fire Bell is very wide. It can also be used for Fire Detection and Warning Systems, Fire Detection and Automatic Extinguishing Systems, security systems, general signaling and enhanced alarms. The Metal Bell is in Red and the Bottom Case is in White. It is an aesthetic product that is easy to assemble and use.

**Certified with EN 54-3**



#### Technical Specifications

Bell Metal Case Diameter	6"
Supply voltage	12 / 24V DC
Alarm Current	15mA / 30mA
Sound Level	90dB / 100dB /m
Class	Tip A (Indoor)
Operating temperature	(-10°C) - (+55°C)
Relative humidity	95%
Enclosure Material	ABS, Metal Body
Weight	500 gr
Dimensions	Ø 157mm h: 80mm



## Conventional Electronic Fire Warning Sounders

### Efire-ES Conventional Siren

It is an ideal product series for indoor areas that require high IP class protection. The general features of this series, the selectable sound level, allows even people to be warned comfortably. Efire Series Fire warning systems have a max. sound level of 105dB / m (A) and provides a selection of 8 tones and 32 melodies. Sound and melody suitable for different environments can be selected. After being energized, it starts working in maximum 1 second and a quick warning is provided. Made of IP 44 protection class and ABS-FR raw material, the product continues to operate until the last moment in case of fire.

#### Certified with EN 54-3.



#### Technical Specifications

Model	Efire-ES
Supply voltage	12/24VDC
Alarm Current	10 ± 2 mA
Class	Tip A (Indoor)
Sound Level Max.	105 ± 2 dB/m(A)
Noise Level Min.	74 ± 2 dB/m(A)
Sound Pattern	8 Ton - 32 Melodies
Protection Class	IP 44
Enclosure Material	ABS-FR
Operating temperature	(-10°C)-(+55°C)
Relative Humidity (Max.)	95%
Weight	160 gr
Dimensions	Ø: 90mm h:75mm

### Efire-EB Conventional Flasher

It is an ideal product series for indoor areas that require high IP class protection. The general features of this series ensure that even people with partial vision loss in the illuminated room in case of an alarm are warned comfortably. Special lens design does not cause temporary blindness as well as providing the required illumination defined by EN 54-23 with minimum current consumption. When Efire Series Fire Warning Systems are operated in a maximum 7m "room, they provide a minimum illumination intensity of 0.4. After energizing, it starts working at maximum 1 second and a fast warning is provided. Made of IP 44 protection class and ABS-FR raw material, the product continues to operate until the last moment in case of fire.

#### Certified with EN 54-23.



#### Technical Specifications

Model	Efire-EB
Supply voltage	12/24VDC
Alarm Current	20 ± 2 mA
Class	Tip A (Indoor)
Lighting Area <sup>2</sup>	W-2.4-7 <sup>3</sup> /118m <sup>3</sup>
Protection Class	IP44
Enclosure Material	ABS-FR
Operating temperature	(-10°C)-(+55°C)
Relative Humidity (Max.)	95%
Weight	170 gr

### Efire-ESB Conventional Sounder Strobe

It is an ideal product series for indoor areas that require high IP class protection. In addition to the selectable sound level and tone, the general features of this series allow even people with partial vision loss in the illuminated room to be warned comfortably in case of an alarm. Special lens design does not cause temporary blindness as well as realizing the required illumination defined by EN54-23 with minimum current consumption. Efire Series Fire warning systems Max. It has a sound level of 105dB / m (A) and provides a minimum illumination intensity of 0.4 lux when operated in a maximum 7m room with 8 tones and 32 melodies selection. Sound and melody suitable for different environments can be selected. After energized, it starts working at maximum 1 second and a fast warning is provided. Made of IP 44 protection class and ABS-FR raw material, the product continues to operate until the last moment in case of fire.

#### Certified with EN EN54-3 and EN54-23.



#### Technical Specifications

Model	Efire-ESB
Supply voltage	12/24VDC
Alarm Current	28 ± 2 mA
Class	Tip A (Indoor)
Sound Level Max.	105 ± 2 dB/m(A)
Noise Level Min.	74 ± 2 dB/m(A)
Sound Pattern	8 Ton - 32 Melody
Lighting Area <sup>2</sup>	W-2.4-7 <sup>3</sup> /118m <sup>3</sup>
Protection Class	IP44
Enclosure Material	ABS-FR
Operating temperature	(-10°C)-(+55°C)
Relative Humidity (Max.)	95%
Weight	190 gr
Dimensions	Ø: 90mm h:90mm

## Products for Special Purposes

### EGD 200 Gas Detection Detector

EGD Series Gas Alarm Detectors are a Gas Detection Detector designed to be mounted on a wall and used indoors, in industry and especially for homes. They are manufactured using advanced technology and are designed to detect the concentration of flammable and toxic gases or vapors using high quality air density components. At the same time, EGD Series Gas Alarm detectors are designed to ensure that the environments where LPG and Natural gas are used are safe. The device detects gas leaks that may occur in homes and industry. Gas leak spreads quietly and can be fatal; people can lose consciousness if not detected in time. In addition, this situation can cause very violent explosions. EGD 200 Gas Detection Detector gives audible and visual warnings when the gas concentration reaches the pre-set level and reminds you to take the necessary precautions urgently. To avoid fire, explosions, drowning or other damaging accidents, you can operate other system-connected equipment, open windows or cut off the gas supply. Each EGD 200 series gas alarm detector is boxed separately and sold with its mounting kit.

#### EGD-200-1224 V



#### EGD-200-220 V



#### Technical Specifications

Model	EGO 200
Detected Gas	Natural Gas & LPG
Sound level	85 dB / 1 m
Protection Area	50 m <sup>2</sup>
Operating temperature	(-10°C -50°C)
Max. Relative Humidity	95%
Protection Class IP	X2D
Weight	160gr-300gr
Sensor Life	5Yil
Alarm Level	% 10 LEL (5000 ppm)
Supply voltage	12 VDC / 24 VDC 230 VAC @ 50Hz
Alarm Current (Max.)	180 mA/ 90 mA 20mA
Power consumption	2.2W 5W
Quiescence Current	120 mA/ 60 mA 15 mA

It has EN50194-1 Certificate and Gazmer Approvals.

### EWLD-1224 Flood Detector

In Houses and Workplaces, Ships and Boats, Factories, Warehouses and Garages; It is used to measure the presence of conductive liquids against floods, to control water leakages. It detects water pressure when any kind of conductive liquid comes into contact with the electrodes on it; With the alarm status, the buzzer on the device creates a sound, the red led turns on and the relay output becomes active.

Certified with EN 61000-6-2 and EN 61000-6-3.

#### EWLD-1224 EWLD-1224-48

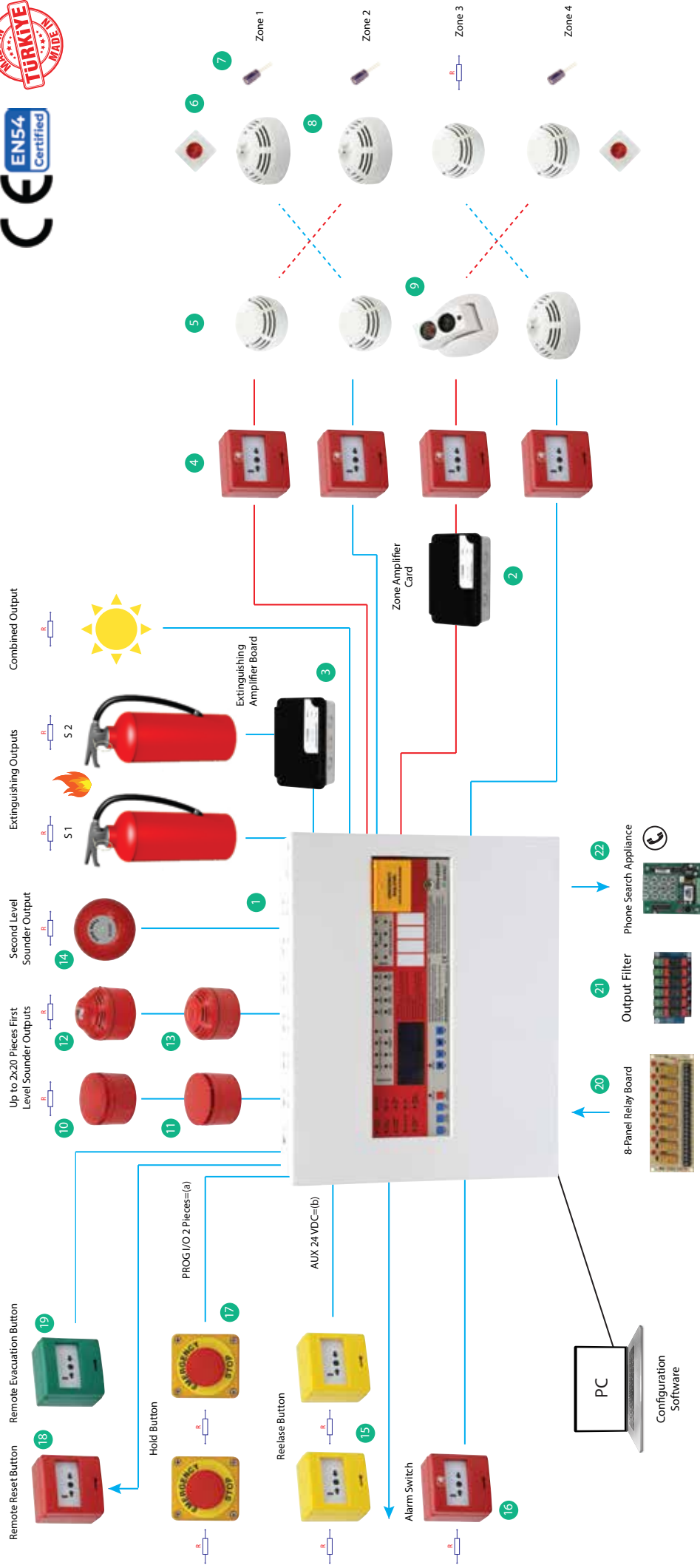


#### Technical Specifications

Supply voltage	12/24V DC Optional 48V DC
Alarm Current (Max)	40mA / 55 mA
Sound Level	>85dB/m
Operating temperature	(-10°C) - (+50°C)
Relative humidity	95%
Enclosure Material	ABS
Weight	140 gr
Dimensions	135x80x40 mm



# ELECTRONIC GAS EXTINGUISHING SYSTEM DIAGRAM



**\* 24V external supply required / Programmable I / O / b Aux 24VDC**

- |                     |                                 |                      |                                 |                         |                              |                      |                              |
|---------------------|---------------------------------|----------------------|---------------------------------|-------------------------|------------------------------|----------------------|------------------------------|
| <b>1</b> Efire-EEXP | Extinguishing Panel             | <b>7</b> Efire-ECD   | Optical & Heat Combine Detector | <b>13</b> Efire-ES      | Electronic Sounder           | <b>19</b> Efire-EYIB | Fire Alarm Manual Call Point |
| <b>2</b> Efire-ZKK  | Zone Amplifier Card *           | <b>8</b> Efire-EHD   | Conventional Heat Detector      | <b>14</b> Efire-EFB-6"  | Fire Bell                    | <b>20</b> E-P-RL-8   | 8 Relay Card For Panel *     |
| <b>3</b> Efire-SKK  | Extinguishing Amplifier Board * | <b>9</b> DLFB-R      | Conventional Beam Detector      | <b>15</b> Efire-EYIB-S  | Gas Release Button – Yellow  | <b>21</b> Efire-OF   | Output Filter                |
| <b>4</b> Efire-EYIB | Conventional Fire Call Point    | <b>10</b> AS1224     | Electronic Siren                | <b>16</b> Efire-EYIB    | Fire Alarm Manual Call Point | <b>22</b> TD-200     | Phone Call Device            |
| <b>5</b> Efire-EOD  | Conventional Smoke Detector     | <b>11</b> AS1224-LED | Electronic Siren With LED       | <b>17</b> Efire-EYIB-ES | Stop Button                  |                      |                              |
| <b>6</b> E-PIL      | Remote Indicator                | <b>12</b> Efire-ESB  | Electronic Sounder Beacon       | <b>18</b> Efire-EYIB-Y  | Gas Release Button - Green   |                      |                              |

## Fire Detection and Automatic Gas Extinguishing Control Panel Efire-EEXP-1/2



4 Zone Detection and 1 or 2 Zone Automatic Extinguishing Panel ,according to the product code, together with reliability and quality. Designed for use in Fire Detection and Auto Extinguishing Systems, the panel has a 4x20 LCD screen that provides clear feedback to the user. The panel has 15 monitoring inputs and outputs. Prog. I / O, Low Pressure and Alarm Key are the featuring inputs / outputs. The panel with advanced electronics design, with ease of assembly and use is available with two product codes. Efire-EEXP-1 Panel supports 4 detection zones and 1 extinguishing zone, Efire-EEXP-2 Panel supports 4 detection zones and 2 extinguishing zones. A variety of auxiliary materials are also available, such as remote status units, stand-by and cancel buttons, line terminators and relay panels. On the front panel; both the Stimulus System LEDs and the LCD display provide fast alarm capability. There are start and cancel buttons according to the number of extinguishing zones 3 language options (English, French and Turkish).

**Certified with EN54-2, EN54-4 and EN12094-1.**

### PRODUCT ATTRIBUTES

- \* 2 units First Level sounder Outputs (Optionally increasable.)
- \* 1 unit Second Level sounder Output
- \* Large LCD Screen for Programming and Control
- \* Separate Entry for Alarm Stand-by and Cancel Buttons
- \* 2 units Programmable I / O (Predefined)
- \* Inputs and Outputs with Monitoring
- \* Special Trigger Area Combined Output With the Alarm Switch (Extinguishing System Triggers Without Countdown)
- \* Timing and Disabling of Sounder Outputs and Relay Outputs
- \* 1000 Event of Memory. Assigning Discharge Time, Assigning Extinguish Countdown Time
- \* Hold and Time Assign Features to Detection Zones
- \* Configuration/Commissioning Software

### OPTIONAL PRODUCTS

- \* Phone Dialing Module
- \* 8-Panel Relay Output Card

### TECHNICAL FEATURES

Model	Efire-EEXP-1 / Efire-EEXP-2
Type	Fire Detection and Automatic Gas Extinguishing Control Panel
Main Supply Input	85-264 VAC 47~63 Hz
Supply Current 1 Zone (Max.)	3.8 A @ 28 VDC
Supply Current 2 Zones (Max.)	5.5 A @ 28 VDC
Main Supply Output	28 VDC $\pm$ 0,5 VDC
Main Fuse	6A 250V Glass
Internal Battery Capacity (25°C)	2 x 12VDC @ 7Ah 20 HR (0.35A,10.5V) or 2 x 12VDC @ 12 Ah
Zone Capacity	32 detectors and / or fire alarm buttons for each zone
Zone Alarm Current	30-90 mA
Zone End of Line Capacitor	100 $\mu$ F 35 V
Zone Alarm Resistance	470-680 ohm
Extinguishing End of Line Resistance	6K8 $\pm$ 5% 1/4W
First Level Sounder Output (Max.)	2 x 24-27 VDC 500 mA (short circuit protected) - monitored
Second Level Sounder Output (Max.)	1 x 24-27 VDC 500 mA (short circuit protected) - monitored
External Supply Output (Max.)	1 x 24-27 VDC 500 mA (short circuit protected) - and with deactivation option.
Fire Relay	27 VDC @ 3A No / Nc-Dry Contact- Normally energized
Fault Relay	27 VDC @ 3A No / Nc-Dry Contact- Normally energized
Programmable I / O	There are 2 pieces. See manual for identification.
Extinguishing Zone Exit	1 or 2 Pieces (Depending on model) - with monitoring
Extinguishing Start and Cancel Buttons on the Panel	1 or 2 pieces (depending on model)
Operating temperature	(-10 C) - (+55 C)
Maximum Relative Humidity	95 %
1 Zone Extinguishing Panel Dimensions	450 x 355 x 100 mm / DKP Metal Body
2 Zone Extinguishing Panel Dimensions	450 x 355 x 126 mm / DKP Metal Body
Weight (Without Battery)	7,10 Kg
Protection Class	IP 30





### E-Z-RL-4: 4 ZONE RELAY CARD

Relay card for zone. Each card have 4 pieces relay. One relay is assigned to each zone according to zone card. Relay triggers and green light indicates when fire signal is present.

· Quiescence Current	: 130 ± 10 mA
· Contact	: 4 x (NC-C-NO)
· Maximum Voltage	: 250 VAC- 30 VDC
· Maximum Current	: 10 A
· Maximum Switching Power	: 300 Watt
· Maximum Switching Speed	: 20 switching/Minute
· Maximum Humidity	: (-10 °C)-(-55°C)
· Operating Temperature	: 95 %
· Weight	: 85 gr
· Dimensions	: 65x80 mm



### E-ZM-4: 4 ZONE EXPANSION CARD

Zone expansion card for Panels. Each card have 4 pieces zones. There is off button, Fire ( red ), fault/test/off (Yellow) LEDs on it. It is easy to assemble and working principle is appointed automatically by the system. E-Z-RL-4 can be added optionally to the zone cards.

· Quiescence Current	: 10 ± 1 mA
· Zone Number	: 4
· Alarm Current	: 90 mA max.
· End of line Capacitor	: 100 uF/35 VDC Capacitor
· Max Number of Detectors/ Zone	: 32
· Operating Temperature	: (-10 °C)-(-55°C)
· Maximum Humidity	: 95 %
· Weight	: 50 gr
· Dimensions	: 65x135 mm



### E-SM: SOUNDER OUTPUT EXPANSION CARD

Sounder expansion card. This card increases panels sounder output from 1 to 3. It can increase total 2 siren outputs to 3+3 : 6 sounder outputs. 24V external supply is needed to use the card. Maximum 20 pieces sounder can be installed for each output. ( Total 120 pieces sounder maximum ) In the normal working situation green LED, in the alarm red LED is active and after the confirmation for sounder output red LED is active.

· Supply resistance	: 24 ± 2 VDC (Harici)
· Alarm Current	: 3 A (max.)
· Alarm Current	: 2 mA @ 24 VDC
· Number of Triggers	: 2 x 1
· Trigger Voltage	: 16 - 24 VDC
· Trigger Current	: 2 mA@16VDC - 15 mA@24VDC
· Number of Outlets	: 2 x 3
· Alarm Signal	: 23,7 VDC @ 24 VDC (Supply)
· Alarm Signal Output Current	: 500 mA (Resettable Fuse)
· Operating Temperature	: (-10 °C)-(-55°C)
· Relative Humidity (Max.)	: 95 %
· Weight	: 35 gr
· Dimensions	: 53x73 mm



### E-RP-ZM-4: 4 OF REPEATER PANEL ZONE EXPANSION CARD

Zone expansion card for repeater cards. Each card contains 4 zones. There is Fire ( red ), fault/test/off( Yellow) LEDs on it. Easy to assemble and working principle is automatically assigned by the system.

· Quiescence Current	: 10 ± 1 mA
· Zone Numbers	: 4
· Operating Temperature	: (-10 °C)-(-55°C)
· Relative Humidity (Max.)	: 95 %
· Weight	: 38 gr
· Dimensions	: 65x135 mm



### E-P-RL-8: 8 RELAY CARD FOR PANEL

Relay card for Panels. This card increases panels contacts (fire and fault) from 1 to 8. When Fire/Fault signal is triggered red LED is active. 24V external supply is needed to use the card.

· Quiescence Current	: 140 ± 5 mA
· Number of Contacts	: 8 x (NC-C-NO)
· Contact Voltage (Max.)	: 230 VAC
· Contact Current (Max. Resistive Load)	: 1 A
· Operating Temperature	: (-10 °C)-(-55°C)
· Relative Humidity (Max.)	: 95 %
· Weight	: 85 gr
· Dimensions	: 54x142 mm



### SKK: EXTINGUISHING EXPANSION CARD

It is designed for products with high alarm current that cannot be connected to extinguishing panel outputs. It can increase the extinguishing output of 1 A up to 1.8 A. Supporting two separate channels, the product can also be used as a single channel. The main panel will fail when the CCT supply is cut, so the main panel must be in an energized state for SKK to work properly. An external supply of 24 Volt 5A / 6A is required for the use of these products. Protection class IP 65.



### ZKK: ZONE EXPANSION CARD

It is designed for products with high alarm current that cannot be connected to conventional panel zones. Supporting two separate channels, both channels must be connected to the main panel in order for the product to work correctly. When the ZKK supply is cut, the main panel will fail, so the main panel must be energized for proper operation. ZKK is ready 3 seconds after energized. (power-up time = 3 seconds) For the use of these products, an external supply of 24 Volt 5A / 6A is required. Supports 1 A for each zone. Protection class IP 65.



AUTHORIZED ORGANIZATION MANAGEMENT  
OF WASTE ELECTRICITY AND ELECTRONIC GOODS

Electrical and Electronic Products do not contain prohibited and harmful substances specified in the "Regulation on Control of Waste Electrical and Electronic Equipment" published by the Ministry of Environment and Urbanization, and comply with the AEEE Regulation. "This product has been manufactured from high quality parts and materials that are recyclable and reusable. Therefore, do not dispose of the product with household and other waste at the end of its service life, but take it to a collection point for recycling electrical and electronic equipment. You can ask the local authority in your area for collection points. By recycling used products, you can help protect the environment and natural resources. For the waste management of our products, our company fulfills its obligations and works with the AGID Authorized Organization."



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