



# Lightning System



## Why install SURGE PROTECTORS?

Lightning can fundamentally affect us in two ways, either by direct impact or through an overvoltage, so a complete

The lightning protection system is made up of two systems; an external system against direct impacts and another internal to Counteract the effects produced by overvoltages. We have standardized protectors to protect any installation and/or equipment,

We even manufacture protectors tailored to the client and the Systems that need to be protected. Contact us and our technical Department will advise you on the most appropriate choice.

### SURGE PROTECTORS



Due to its small size and incredible performance, The ELECTRON E15 lightning rod with priming Device (PDC) is perfect for protecting structures And small areas such as towers, antennas, or single-Family homes. This device has successfully passed The tests based on the UNE 21186, NFC 17102, and NP 4426 standards for lightning rods with a priming device:



The SIGMA+ priming device (ESE) lightning rod is an Incredibly effective and highly competitive premium protection System. This device has successfully passed the tests based on the UNE 21186, NFC 17102, and NP 4426 standards for lightning rods With a priming device:



The ADVANCE + lightning rod with an ignition device (PDC) is the Best Protection with the latest technologies incorporated and the best Guarantee of operation. This device has successfully passed the tests Based on the UNE 21186, NFC 17102 and NP 4426 standards for Lightning rods with an Ignition device:



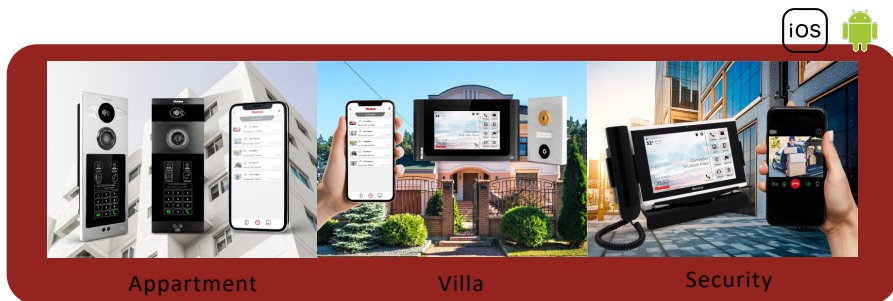
# Intercome System



- Cloud Ip Intercome
- Android Ip Intercome
- Linux Ip Intercome

## Cloud Ip Intercome

No cabling, no additional infrastructure cost! Cloud Intercom is a stand alone system. Only one door panel or security console is required to Run the system. Room monitors are not mandatory. Save the time and cost from all cabling and hardware. You can add additional door panels, Cameras, apartment monitors and smart home devices to the system according to your needs, and you can control them all through the Same mobile application and apartment monitor. Cloud Intercom works with all devices in the Multitek Smart IP Intercom family.



Apartment

Villa

Security

### InDoor Types:

- VIP101-SMART
- VIP102-SMART
- VIP72-SMART
- VIP100-SMART
- VIP75-SMART
- VIP74-SMART
- VIP72-SMART
- GUV-IP100

### OutDoor Types:

- DIP70
- DIP70Y
- DIP72
- DIP72Y
- DIP40
- DIP01
- DIP01C





# Electrical Panels

We are one of the largest manufacturers of electrical panels in Iraq. We have nearly two decades of experience in Designing and manufacturing electrical panels for the largest and most reputable companies in Iraq and Kurdistan. Our factory can design all your requested panels and manufacture them according to the latest and most current Standards.

## Our Products

- Main Distribution Panels
- Synchronization Panels
- ATS Panels
- Control, Automation Panels
- Sub Distribution Panels
- Special Panels based on request





For general trading &  
Electrical Service LTD.

# LAD

## Contact Us

---

Phone:  
07701518111 - 07701218899

Website:  
[www.lad-co.com](http://www.lad-co.com)

Address:  
Sulaymaniyah: Malik Mahmood Street Near Zargata Bridge

# Fire Alarm System

## ANALOGUE ADDRESSABLE FIRE DETECTION SYSTEM



**BSR-1001 EVPU** Addressable fire detection control panels with 1, 2 or 4 loops/128 zones (Olympia A Protocol)  
**BSR-1002 EVPU**  
**BSR-1004 EVPU**

**BSR-1000 EVPU** Repeater panel for BSR-100x

The BSR-100X series of analogue addressable fire alarm panels consists of 3 models (1, 2 and 4 loop connections), named BSR 1001, BSR -1002 and BSR 1004 respectively, all sharing the same control interface, functionality and indications.

The accompanying software application for Windows PC, BSR-100X provides utilities for calculating installation parameters, configuring the control panel and keeping an event log record.

All BSR 100X models include 4 outputs for conventional sirens, an alarm relay, a fault relay and a programmable auxiliary relay. Two 12V lead acid (Pb) batteries are required in each control panel. The supported battery capacity is 7Ah, 9Ah, 12Ah or 15Ah, which must be calculated in accordance with the size of the installation (number of devices) and the required emergency duration (during mains interruption).

The available loop connections are: 1 for BSR -1001, 2 for BSR - 1002, and 4 for BSR -1004. Each loop output connection can support up to 150 addressable units (smoke and heat detectors, addressable sirens, manual fire call points, etc).

All features and indications are in accordance with European standards EN 54 2, and EN 54 4. The BSR 100X series analogue addressable fire alarm panels is ideal for medium to large scale facilities such as department stores, hotels and factories because of the ability to have up to 4 panels networking and up to 8 repeaters networking.

The BSR-1000 repeater provides to the user the ability to perform basic system functions and an overview of the current state and events of the panel network via the built-in keypad and illuminated graphics display.



**BSR-6155 EVPU**  
Addressable optical smoke detector with integrated isolator (Olympia A Protocol)

- Standby consumption 195µA, alarm consumption 2.5mA
- Smoke concentration sensitivity adjustable from 0.107 to 0.300 in 0.010 dB/m steps



**BSR-6157 EVPU**  
Addressable optical smoke and heat detector, Rate-Of-Rise or Static (user programmable), with integrated isolator (Olympia A Protocol).

- Standby consumption 195µA, alarm consumption 2.5mA
- Smoke concentration sensitivity adjustable from 0.107 to 0.300 in 0.010 dB/m steps
- Class A1R/A1S



**BSR-6160 EVPU**  
Addressable heat detector Rate-Of-Rise or Static (user programmable), with integrated isolator (Olympia A Protocol)

- Standby consumption 90µA, alarm consumption 2.5mA
- Class A1R/A1S/CS



**BSR-8120 EVPU**  
Addressable twin input/output unit with integrated isolator (Olympia A Protocol)

- External voltage 12-30V DC
- Standby consumption 200µA, alarm consumption 2.5mA



**BSR-5136 EVPU**  
Addressable manual call point unit with integrated isolator (Olympia A Protocol)

- Standby consumption 90µA, alarm consumption 2.5mA



**BSR-5132/WP EVPU**  
Waterproof addressable sounder with beacon and integrated isolator (Olympia A Protocol)

- Standby consumption 90µA, alarm consumption 11.2 to 52.4mA
- Maximum sound level 101 dB



# Emergency Exit



### POWER LIGHT

LED head lamps emergency luminaries with non-maintained Operation. The family includes models for indoors and Waterproof, suitable for outdoors. Wall mounting with 2 Rotated head lamps. Autonomous self-testing luminaries And central battery system (CBS) luminaries. With 710lm to 3200lm light output and 1,5 or 3 hours duration. Networking Capability ( addressable & wireless). They can be used for Emergency lighting on big and tall environments.



### SLIM LEDs LIGHT

Led emergency luminaries maintained-non maintained Operation. For all indoors environments, wall or ceiling mounting. With base for recessed mounting on suspended ceiling. Autonomous luminaries with TEST button. With 100lm light Output and 1,5 or 3 hours duration. Suitable for use as Emergency luminaries or exit signs by applying the required Pictogram.



### WEATHER LIGHT

Led emergency luminaries non-maintained operation. Water Proof, ideal for refrigerators & cold rooms(-20°C). Wall mounting. Autonomous self-testing luminaries. With 105lm to 480lm lights Output and 1,53 or 8 hours duration. Suitable for use as Emergency luminaries or exit signs by applying the required Pictogram. Incorporates a bank of super capacitors instead of Normal batteries and offers a 10 years guarantee.



### 3D LIGHT

Led emergency luminaries with maintained/non-maintained Operation. Suitable for indoor areas and ceiling mounting. Autonomous central battery system (CBS) luminaries. With Autonomy of 1, 3 or 8 hours and 50m viewing distance.



### LED LIGHT BOX

Led emergency luminaries maintained operation. Aluminium Profile, IP44, suitable for indoor open spaces, garage and Industrial spaces. Ceiling or wall mounting. Autonomous Addressable luminaries, central battery system (CBS) luminaries. With 1,5/3 or 3 hours duration. Used only for internal Illuminated safety signs for 26, 40 or 64 meter viewing Distance. Networking capability (addressable & wireless).



### ECO LIGHT

Led emergency luminaries with maintained/non maintained operation. Suitable for ceiling or wall mounting. With base for recessed mounting on Suspended ceiling. Autonomous luminaries, Autonomous addressable luminaries and central battery System (CBS) luminaries. With 75lm and 3 hours duration. Used only for internally illuminated safety signs with Models for 20, 22 and 30 meters viewing distance. Networking capability (addressable & wireless).



### BAU LIGHT

Led emergency luminaries maintained operation. Waterproof (IP54) suitable for indoor open spaces. Wall or ceiling mounting. The family includes autonomous addressable luminaries and Central battery system (CBS) luminaries. Up to 350lm and 1, 3 or 8 Hours duration. They can be used for emergency lighting (LL Models) or for illuminated safety signs (HL models). Networking Capability (addressable & wireless).



*for a safer world*





# Busbar Trunking System

## Busbar System



ELEKTRİK

- **Busbar MV:** Provides transfer and distribution of electrical Current between 950A and 5700A (Medium Voltage Busbar: Protection with metal over cast resin). Conductors are manufactured from Aluminum or electrolytic copper as per customer request.
- **Bus bar KK:** Provides transfer and distribution of electrical current between 400A And 6300A (By means of tin-plated aluminum busbar or copper bus bar conductors.)
- **Bus bar CR (Cast Resin Busbar):** Provides transfer and distribution of electrical Current between 630A and 6300A (By means of aluminum busbar or copper bus bar conductors.)
- **Bus bar MK:** Provides transfer and distribution of energy in the current levels between 100A and 225A (By means of aluminum bus bar or copper bus bar conductors.)
- **Tap-Off Boxes** :are used to draw power from the Busbar Trunking To supply the Rack Cabinets With the required energy and monitor the consumption. EAE offers a wide range of Tap-Off Boxes constructed out of sheet metal and plastic.





# Busbar Trunking System



"Hercules" – a busway system that includes the high, medium and low power bus bars within an Aluminium casing. The system is designed to meet the requirements of the latest European standard IEC 61439. The high power and medium power bus bars are designed with several unique patented Solutions that are not available to other manufacturers.

