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THE TURAN ELECTRIC COMPANY – THE LEADER OF THE TURKISH MARKET OF ENERGY AND ELECTRICAL PRODUCTS

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Turan Electricity Company was established in Bodrum District of Muğla Province in 1998. Bodrum, is a famous settlement and living center at the coast of Mediterranean with its luxurious housing and mansions. Our company has rendered service with a great enthusiasm since its foundation. We provide the services with an innovative aspect by combining electricity with mechanic without permitting any decrease in the quality.

To date, one of the activities of our company is the creation of a complete set of electrical and electrical supplies for the smart house system.

Currently, smart home management systems are becoming more popular. A centralized interface that manages devices throughout the house, helps you save time and allows you to control your home much more efficiently. Realizing their vision of such systems are engaged as eminent brands: Apple, Amazon and Google, integrating them into their infrastructure, and craftsmen who collect similar systems based on the Arduino platform.

Consider the use of electricity and mechanics in the mansion, which uses intelligent home technologies.

The power incoming to the transformer station is at medium voltage. In order to be able to control medium voltage, power breakers are used before the transformer. They are called cells. The power is supplied first into the input cell and the breaker is shut down. Power is outlet from here into outlet cell and, it is prepared for supply to the transformer by switching the breaker off.

Also, the power supplied to the input of the transformer is at medium voltage, the power that is output from the transformer as low voltage is fed from here to low voltage panel.

In order to prevent breaking out of a fire due to a probable electrical contact, fire protection switch is used at the input to low voltage panel. To protect the system against high voltages such as caused by the lightning, panel type lightning arrester is used.

Generator system to be used as backup power supply in the case of possible power outages is also connected to this panel.

Main distribution panel: Machine rooms are present in bi buildings like mansions. The power is supplied from the main panel (switchboard) to main distribution panel in the machine room by means of a cable having a proper cross section. (Cross section of the cable is calculated according to power supply to be used in the location and the distance it will be laid)

Power input to the main switchboard at the entrance to main distribution panel (MDP) is distributed from here to all locations in the building by separate switches.

The power is fed to floor panels by providing a separate outlet for each floor in the building. Mechanical panel is established in this type of buildings owing to abundance of mechanical structures in such structures and the power is supplied to mechanical type panel.

Also power outlet is supplied for installations such as garden lighting system, security system, machine room for swimming pool, sauna etc..

Building floor panels: the power fed to building floor panels is input to the main switch panel at the building entrance. Power is divided into two parts in this panel.

A separate section is formed for the sockets and machines and power is fed into residual current relay. Separate outlets are fed from here for each machine and socket (receptacle) and these outlets are provided using automatic tripping fuses with current values pointed out in the technical specifications of the respective machines.

The power supplied to lighting section is input to the residual current relay and distributed to the lighting fixtures in the respective locations equipped with automatic tripping fuses having proper current values. Lighting fixtures are also classified as general lighting fixtures, table and object lighting, aesthetic lighting etc. .

Automation (Smart building systems). Since requirements and pleasures have become prominent in huge and luxurious structures, details are quite plentiful. Therefore, automation stems are used in smart buildings. All or some parts of the systems in the building may be controlled by a single automation system.

The systems used in the building may be programmed and commanded via electronic automation systems integrated into the panels in the smart buildings.

Power supply panel for supplying power to the machines;

The power supply for the systems such as ventilation system, central air conditioning system, heating system, water pumps etc, may be fed from the power supply panel for the machines.

Security Systems. Burglar alarm systems are generally used in internal locations. Magnetic contact is installed on the doors and the windows that may be opened. Roof or wall sensors are placed on general locations. Camera systems are installed in the perimeter of the location or at the bottoms of the walls or at masts with inaccessible height. The most outstanding properties of the cameras are night vision and high resolution. These systems should be remotely controllable by means of mobile devices.

Garden lighting systems. More than one lighting system may be applied at external locations outside of the building. Lighting system applications may vary such as general lighting, security lighting, road lighting, lighting of the trees, grass, pool lighting etc.

All of these systems may be controlled from inside the building by means of mobile device.

In connection with the innovation and progressive nature of the idea of a smart home, Turan Electricity Company will continue to develop the idea of creating a smart home and promoting its products to the European market.