

ELECTROMECHANICAL TOTAL SOLUTIONS PROVIDER





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ELECTROMECHANICAL TOTAL SOLUTIONS PROVIDER

About Us

Alpha Design & Networking founders gained broad knowledge and experience in the ICT market since the 1980s. The vast expertise accompanied by Quality Excellence in Products, Services and Integrated Solutions has led to the establishment of Alpha Design & Networking in 1997.

We are globally recognized as Pioneers in Electromechanical Fire-fighting, Infrastructure Data Cabling and Light Current systems. Alpha Design is a leading company providing Electromechanical Total Solutions for various industry segments; Data Centers and Telecommunications, Finance, Tourism, Health, Transportation, Factories and Refineries, Power Transformer Substations and Utilities, Educational, Government, Commercial and Administrative Buildings among others.

Our proven innovations demonstrate our commitment to delivering top-quality solutions and leading global brands. We prioritize regular maintenance to ensure optimal system performance. Through subcontracting with large multinational corporations, we successfully manage large-scale integrated projects.



Our Services

Alpha offers consultancy services in the fields of Electromechanical and Light Current for different industries. Our experiences and resources allow us to build solutions for turnkey projects or build to order requirements. We are distributors to world leaders in **Fire-fighting and Fire Detection & Alarm**.



Consultancy



Turnkey Projects and Build to Order



System Integration



Distributors

Our Strategies

Alpha Design specialized engineers have broad experience in designing systems by the latest technologies, research-backed with market knowledge. Our warehousing, transportation facilities and highly-skilled technical teams allow us to **supply, install, test and operate our systems seamlessly.**



Identifying customer needs, environment and business objectives



Understanding market requirements, behavior and needs



Close follow-up to industry standards, trends and directions



Selection of our products, suppliers and business partners



Full implementation of business practices and methodology



Our Products

Alpha Design is a distributor for renowned brands, offering products for **Fire-fighting, Detection and Fire Alarm.**





Products' Certifications

We employ certified products that meet the highest standards in Fire Protection and adhere to the NFPA guidelines. These certifications are mandatory to ensure that our systems are **reliable, efficient and compliant with global fire safety regulations**, providing our clients with the assurance of top-tier protection and performance.





Our Integrated Solutions



Life Safety and Physical Security Systems



Infrastructure Data Cabling



Light Current Systems



Electrical Power Systems



Heating, Ventilating & Air Conditioning (HVAC)



Plumbing Systems



LIFE SAFETY & PHYSICAL SECURITY



Fire Fighting Systems

Alpha Design is a distributor for Fire-fighting & Fire Suppression prime brands, offering leading-edge **Fire-fighting and Fire Suppression solutions** for the safety and protection of human life and premises, employing different systems and products.



Fire Suppression Systems

Besides being a prime contractor or subcontractor for numerous key projects in Egypt and abroad, **Alpha Design is a distributor for leading Fire-fighting, Detection and Fire Alarm brands.**

- | | |
|------------------------------------|----------------------|
| • Fire Alarm | • Inert Gases |
| • Sprinklers | • Water Mist |
| • Flexible Sprinkler Connections | • Hoods Wet Chemical |
| • Valves and Accessories | • Dry Chemical |
| • CO ₂ Fire Suppression | • Fire Trace |
| • FM-200 Fire Suppression | • Foam Suppression |



Fire Detection & Alarm Systems

Alpha delivers a market leading experience in Fire Protection solutions from major brands. We provide **Fire Alarm systems that work in coordination to detect potential fire before it occurs**, through visual and audio devices. The systems are suitable for various environments, being activated by different factors; smoke detector, heat detectors or water flow sensors.



Access Control Systems

We provide integrated solutions to businesses, offering breakthrough design with commitment to excellent product support and dedication to future technologies. The interconnectedness of these areas enables Alpha to keep pace with the ever-changing needs of the Security market. We work with world leaders in the industry.



CCTV Security Systems

We design and install CCTV professional systems to suit all needs to accommodate the wide range of CCTV applications on different levels with all system components from cameras, multipliers, monitors and time laps recording machines, through world leaders.



Intrusion Detection Systems

Alpha Design offers different Physical Intrusion Systems against damage or theft. **The systems detect events that indicate unauthorized entry**, which enables protection of human life, equipment and premises. Our solutions include door position sensor, glass break detector, motion detector and panic button.

INFRASTRUCTURE DATA CABLING



Structure Cabling Systems for Premises

We cover every aspect of Fiber Optic Cabling from Cable Management and interconnection to Installation and Testing. Alpha has developed a number of innovations in cabling and systems that are economically attractive, providing fiber-to-the-desk solutions with world leaders in the field. **We are committed to provide cables designed for delivering reliable performance**, providing Cabling Systems using copper, fiber or a combination of both. We ensure customers to receive well-designed, cost-effective systems that meet not only their current requirements, but also their future communication needs.

LIGHT CURRENT SYSTEMS



Data Communication Networking & Data Center

We design and install data communication networks on several levels; LAN, WAN, design and implementation of Data Centers using the latest technology. Our scope includes hardware, networking devices, edge switches, core switches, multilayer switches, routers and security products through world leaders in the field.



Audio Visual Systems

We provide custom Audio-Visual systems for professional presentations, including conference setups, language interpretation, and public address systems, featuring equipment like projectors, microphones, amplifiers, and sound processors.



Telephony Systems

We design and implement LAN, WAN, and data centers using advanced technology, providing hardware and networking solutions from top global providers.



Queuing System

Alpha offers Queuing Management System to guide customers at the counters where their ticket is called. The digital screens run simultaneously with a live feed and queue updates to **enhance efficiency and customer satisfaction**.



Lighting & Dimming Systems

We design & install dimming systems using global brands that complement interior design & space planning. Our systems feature pre-programmed schemes for various settings; intelligent multi-zone controls for **daylight management and energy efficiency**.



ELECTRICAL POWER SYSTEMS



Electrical Power

Alpha provides the facilities for a reliable Backup and Emergency power supply to regulate and stabilize Electrical Power through different types of Electrical Power systems; Electrical Network, UPS systems, Stabilizers, Backup Generators, ATS Panels and Electrical Panels, specialized for Data Centers and Premises.

HEATING, VENTILATING AIR CONDITIONING



HVAC

We offer Heating, Ventilating and Air Conditioning system design, supply and installation, including Freon Cooling or Water-Cooling Chillers, DX Units, Fan Coil Units, Exhaust, Smoke, Pressurization Fans and Air Condition Electrical Panels. Our implementation is fit for **Administrative Buildings, Factories and Data Centers.**

PLUMBING SYSTEMS



Plumbing

Alpha sets up the Plumbing System, which includes the water supply distributing pipes, fixture and fixture traps, soil, waste and vent pipes, the building drain and building sewer, the storm water drainage, accompanied by their devices. In addition to appurtenances and connections within and outside the building. Alpha Design performs the maintenance of Desalination Plants.



SELECTED **CLIENTS** & ONGOING PROJECTS





Egyptian Stock Exchange



Alpha Design led the renovation of Cairo and Alexandria Stock Exchange in 1999, designed and installed complete integrated systems including operation and maintenance of Data Networks, Cabling, Light Current, Electromechanical and Fire-fighting systems. Since 1999, Alpha Design is maintaining time-critical operations and systems of HVAC, Fire-fighting and Alarm, Electrical Power, Access Control, CCTV and Cabling Infrastructure.

General Authority for Investment



Alpha has maintained a long-term contractual agreement with GAFI's main campus and its branches throughout Egypt for 20 years, handling the installation and maintenance of their Electromechanical Fire-fighting systems, Data Cabling Infrastructure, and Low Current systems.



Egyptian Railway Stations



Alpha Design received the challenge of designing, supplying and installing Data Network and Electrical Infrastructure for over 140 train stations each with its own administrative buildings 107 workshops, and cargo stations in West, East, Middle Delta, Central and Upper Egypt. The mega project was completed in a time record period, and a 3-year contract of maintenance was fulfilled.

ECHEM



Alpha Design's Infrastructure Data Cabling solution developed the Data Center of The Egyptian Petrochemicals Holding Company, one of the four specialized bodies of the Egyptian Ministry of Petroleum. Alpha provided solutions in both, Data and Electrical Networks through installment of 3000 nodes in the whole building, in addition to Light Current and Telecommunication systems.



Heidelberg Cement Group



For 25 years, Alpha Design has worked with Italcementi Group, now part of Heidelberg Cement Group, across its 5 factories in several locations in Egypt, delivering solutions for their challenging environments. We pioneered in developing and implementing a comprehensive Safety Solution for a coal factory, including Fire Suppression and Alarm systems in wide cable tunnels, coal mills, and bin silos. Implemented cost-effective solutions to connect their remotely located Fire Alarm systems over 3 KM apart, approved by AXA and HDI.

PepsiCo International



We supplied and installed Fire-fighting systems for the majority of PepsiCo & Chippy distribution centers, including CO2 systems, Wet systems, Hose cabinets, and Fire pumps. Managed the maintenance of Fire-fighting and Fire Alarm systems across all 10 factories and 21 distribution centers throughout Egypt.



Louis Dreyfus



We supplied and installed Fire-fighting systems for the majority of storage warehouses of Louis Dreyfus Company located in Abu Qir Port. This includes the provision of highly effective Fire Suppression solutions tailored to the specific needs of large-scale storage facilities for agriculture and food processing industry. The systems installed are designed to protect valuable goods and equipment.



Pirelli Prometeon



In partnership with Pirelli to build their Total Fire Safety including Alarm and Foam Fire Suppression systems from the ground up. We are designing and implementing their system with state of the art in cooperation with FM Global as their insurance provider.

And more ...



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