

شركة مجموعة الشيخ الدولية ذ.م.م. AL SHAIKH INTERNATIONAL GROUP CO. LLC

ADVANCED INDUSTRIAL SAFETY SOLUTIONS

- » Gas Detection Systems
- » Breathing Apparatus Air Line Systems
- » Thermal Imaging & Rescue Items
- » Emergency Rescue Equipments
- » Fire Detection and Fire Alarm Systems
- » Fire Fighting Services
- » Fire Suppression Systems
- » Annual Maintenance Contract
- » Rescue & PPE Safety Items
- » Ambulance Services



AL SHAIKH INTERNATIONAL GROUP (LLC) a fully Saudi Owned company was established in Eastern province of Saudi Arabia in the year 2007 with its Head Office based in Dammam. Over the years, the company has developed a professional team of technically trained staff providing 24/7 response to the timely needs & capable of providing total safety solutions.

ADVANCED INDUSTRIAL SAFETY SOLUTIONS (AISSOL) a division of **AL SHAIKH INT'L GROUP (LLC)** is one among few companies in the region have obtained license from Civil Defense to carry out Design and Engineering, Supply and Installation, Testing and Commissioning, Training and Maintenance works - Turnkey solution partner for Fire & Safety. We are committed to promote safety and security to protect life and property across major Industries namely Residential and Commercial facilities, Oil and Gas Industries, Airports and Aviation, Health Care and Education, Hospitality and Leisure etc.

MISSION : To be the most trusted and recognized Firefighting & Safety provider in the Region through Technology, Innovation and exceptional customer service

VISION : To be a distinguished business leader committed to sustained excellence and innovation in delivering quality products, services and solutions to our valued customers.

Why choose AISSOL ?

- ✓ AISSOL brings complete solutions for the critical industrial and commercial facilities requiring the highest standards of Safety and fire protection.
- ✓ Whether small or large, AISSOL has the resources, products and the expertise to handle your project from start to finish.
- ✓ For every project we handle, AISSOL assigns a dedicated project execution qualified and experienced staff to ensure that all projects are completed according to schedule and within budget.

AISSOL is capable of providing quality Fire and Safety products and comprehensive services as follows :

- | | |
|---|-------------------------------|
| ➔ Gas Detection Systems | ➔ Fire Fighting Services |
| ➔ Breathing Apparatus Air Line Systems | ➔ Fire Suppression Systems |
| ➔ Thermal Imaging & Rescue Items | ➔ Annual Maintenance Contract |
| ➔ Emergency Rescue Equipments | ➔ Rescue & PPE Safety Items |
| ➔ Fire Detection and Fire Alarm Systems | ➔ Ambulance Services |

AREA OF OPERATIONS AND INDUSTRY SEGMENTS



Oil & Gas



Refineries



Petro Chemical Industries



Health Care Sectors



Electro Mechanical Sectors



Marine Industries



OUR CLIENTS

- ▣ Saudi Aramco
- ▣ Sadara
- ▣ Saudi Coast Gaurd
- ▣ Saudi Aramco Nabors Drilling (SANAD)
- ▣ National Petroleum Corporation
- ▣ Greywolf Oilfield Services
- ▣ National Building Company (NBC)
- ▣ Sabic
- ▣ Ma'aden
- ▣ Flour Arabia
- ▣ Saipem
- ▣ ZP Arabia Drilling Co.
- ▣ Sinopec International
- ▣ Arkad Engineering Co
- ▣ Mc Dermott
- ▣ Yanbu Royal Commission
- ▣ Naser Al Hajri Corporation (NSH)
- ▣ Weather Ford Drilling Services
- ▣ Al Suweidi Group of Companies
- ▣ Housing Compounds And Camps
- ▣ Land Mark Arabia Company LLC



OUR MAJOR PROJECT REFERENCES

- The H2S Gas detection system installation in Precision Drilling Company
- Cascade breathing air system's in Precision Drilling Company
- H2S gas detection & Alarm System Installation in ZP ARABIA
- Fire Fighting system installation in ARAMCO Facilities in RASTANURA
- FM200 Fire Suppression system installation in King Fahd International Airport
- WET Chemical Suppression system's in HAWIYAH GAS PLANT
- WET Chemical Suppression system in Contractor Facilities FADHALI GAS PLANT
- Fire Alarm System installation in water injection Plant, Abqaiq, Saudi Aramco
- Fire Fighting System in ARASCO
- Gas pipe line project for Saudi Arabia Naval Base
- LPG Gas pipe line installation for Al Suweidi
- Fire Fighting & Fire detection system in many housing Compounds
- Gas detection, Fire suppression, Kitchen Hood System & Cascade System

OUR INTERNATIONAL BUSINESS PARTNERS

- ▶ MSA Gas Detection (MSA)
- ▶ Honey Well Gas Detection (Honey Well)
- ▶ BW Technologies Gas Detection (BW)
- ▶ Mircom Fire Alarm Systems (MIRCOM)





MSA ULTIMA® X5000 Gas Monitor is the future of gas detection for oxygen, toxic and combustible gases. MSA XCell® gas sensors with TruCal® technology offers calibration cycles up to 18 months (local calibration respected). The gas transmitter's advanced, multi-lingual OLED display is easy to read



MSA ULTIMA X Series Gas Detector for indoor or outdoor continuous monitoring of hazardous gases. Designed to provide thorough, continuous monitoring of many hazardous gases, the indoor/outdoor Ultima X Series Gas Monitors offer excellent performance and MSA quality craftsmanship. Dura Source™ Technology offers extended sensor life.



Honeywell BW Sensepoint XCD RFD is your most flexible, practical choice for remote gas monitoring in Class 1, Div 1 areas. Features & Benefits : Accurate detection with fast response, Mount sensor up to 100 ft. from transmitter, Easy to read tri-color backlit display. Input voltage range: 16 to 32 VDC (24 VDC nominal), Communication : RS485, MODBUS RTU, Mounting on Pole or wall.



Calibration Test Kit Simple, accurate calibration is easy with these economical, all-in-one kits. Choose from 14 different types for sensor and instrument calibration. Kits can accommodate 1 cylinder, regulators, tubing, accessories and instructions. All kits housed in a lightweight carrying case.



MSA GasGard® XL Controller

Monitors up to eight remote gas sensors with the highly accurate wall mounted Gas Gard XL Controller. The sensor's large, multi-language LCD display provides real-time readings, offers full-system diagnosis and shows intuitive icons. Housed in durable, fire-retardant ABS plastic, the controller is suitable for a variety of chemical, industrial and waste water environments. Sensor also features a buzzer that sounds up to 85 db.

MSA ALTAIR 5X Gas Detector : ALTAIR 5X Gas Detector is capable of measuring up to 6 gases simultaneously and is now available with integrated PID sensor for VOC detection is backed by a 4 year warranty.



MSA XCell® ALTAIR 4XR Gas Detector

Outfitted with rapid-response sensors is the toughest 4-gas monitor on the market and is backed by a 4-year warranty. The ALTAIR 4XR can also provide real-time incident awareness to team members, supervisors, safety managers when paired with the MSA ALTAIR Connect app via a Bluetooth® wireless connection.



Honeywell BW Clip4 is the latest in wearable 4-gas detection. Just clip it on and get job done. It detects H₂S, CO, LEL, O₂ at a time, No hassle, No charging. No sensor / battery replacements



Honeywell BW™ Ultra

is a five-gas detector from Honeywell that is designed specifically for sampling and monitoring confined spaces, before and after entry. It benefits from unmatched sensor technology, visibility on gas readings, comfort, and connectivity even in most extreme working conditions. The Honeywell BW™ Ultra simultaneously detects four gases you're required to monitor in confined spaces.





Full Face Respirator with superior protection and comfort. The full face mask series Advantage 3000 provides both protection and unparalleled comfort. The soft sealing line made of hypoallergenic silicone provides a pressure free fit. The large, optically corrected lens ensures a clear, undistorted view.



The G1 SCBA is designed solely with your safety and comfort in mind. The G1 SCBA offers integrated and enhanced solutions to exceed your needs today as well as years into the future.

Prem Air Cadet Escape Respirator Type C Supplied-Air Respirators, commonly called air-line Escape Respirators provide long-duration respiratory protection. The Prem Air Cadet Escape Respirator, Combination Supplied-Air Respirator with Escape Cylinder offers streamlined design for size, simplicity, comfort, and economy. Key applications include refinery, oil & gas drilling, maintenance, confined space entry, storage facilities, public works, and food processing.



Carbon-wrapped Cylinders are the lightest SCBA air cylinders ever developed by MSA. They feature a unique outerwrap made of lightweight, high-performance carbon fibers, which reduces cylinder weight by two to six pounds when compared to fiberglass-wrapped cylinders and as much as ten pounds when compared to aluminum cylinders. Available in five models to accommodate a wide range of applications.

MASS trolley systems of MSA can be used in all places where the air in the environment following to the presence of harmful substances for human is no more considered to be breathable, as it can't be purified with absolute certainty or because the filtering equipment can't be any longer used because of lack of oxygen.



Breathing Cascade

The standard system is six (6) 6000 psi/UN approved, 510 cu.ft. cylinders. Each tank is to be equipped with a new, softseat valve, complete with appropriate approved safety relief device. For one end of the system is to be provided a nut & nipple, an elbow and a 6000 psi 8-inch flexible hose to connect from the compressor and for the other end is to be provided a tee, a 2-1/2 inch 10,000 psi line gauge and the filler hose.



Transfill 1 to 6 cylinders at a time from a bank of 3 to 10 supply tanks. This economical filling station is simple to use

Applications :

- Airport FBOs and Hangars
- Fire Departments
- Emergency Medical Services
- Home Healthcare Companies
- Ambulance Companies
- Scuba/Dive Oxygen Providers
- Medical, Dental, Veterinary Offices
- Government and Military Applications



We provide Cascade Systems and Transfill Hose Assemblies for all commercial gasses.

High pressure breathing compressors

Designed to quickly charge 300 and/or 200 bar cylinders, MSA high pressure breathing air compressors work seamlessly as part of an air purification system that meets the highest, most stringent standards. Low operating speed for continuous, reliable operation.





MSA Xtreme Thermal Imaging Camera adds standard integrated video and image capture. New Evolution 6000 Xtreme TIC from MSA is the most advanced and rugged thermal imaging camera ever built. New & enhanced features include best in class image quality, light weight, laser pointer integrated video, picture capture & integrated wireless video transmission system.



Integrated Thermal Imaging Camera can be seen through the G1 SCBA control module. The MSA G1 SCBA with Integrated Thermal Imaging Camera provides every firefighter the ability to see in dark and smoke filled environments, aiding in the speed and effectiveness of your operation from the initial 360 to working the fire, overhaul and rescue.

This sight is provided through a Thermal Imaging Camera that is integrated into the G1 SCBA Control Module, eliminating the need to carry an additional piece of bulky equipment and the concern of an additional snag hazard.



Honeywell Searchline Infrared Transmitters The patented optical design used in Searchline Excel has proven itself as the only solution available that fully addresses all the challenges of open path gas detection. Unlike some competitive devices, it does not try to hide fundamental design inadequacy with the use of software masks that can compromise ability to detect gas.

Ti400 PRO Infrared Camera



- Increased sensitivity to visualize temp. differences, NETD for Ti400 PRO is ≤ 0.04 at 30°C target temp (40 mK)
- Easier to visualize and diagnose issues with sharper onscreen images, multiple rectangle markers and more intuitive visual interface, improved, user-tested and touch screen interface

- Get an instant in-focus image of your designated target. LaserSharp™ Auto Focus uses a built-in laser distance meter that calculates and displays the distance from your designated target.

Fire Helmet The new Defender® Goggle for MSA Cairns 1044 Traditional Helmets offers eye protection from dust, dirt, and grit. Sleek and attractive construction allows fast, easy raising and lowering of your goggle even with gloved hands. This goggle's exclusive integral design is retractable for the ultimate in compact convenience.



Fireman Gloves Yellow water repellent leather gloves, Gunn cut, winged thumb, gauntlet type, lined with Kevlar®/cotton jersey, Water repellent grain leather yoke at the base of thumb and middle finger, Veins protection, Split leather cuff, Velcro strap, Stitch with Kevlar® thread.



Fireman Uniform Used in the areas of personal protection for firefighters, home fire protection, fire escape, structural fire sites road rescue and wild land fire fighting. Available in all Sizes and in two colors : Navy Blue and Beige color, Outer fabric made of 6.0 oz Aramid, Moisture barrier : Twaron laminated.



Safety Harnesses provide added comfort by removing excess weight. The Evotech® Lite Full Body Harnesses are 20% lighter than standard fall protection safety equipment; workers will feel the difference at the end of a long day.



First Aid Our First Aid Kit contains wide range of first aid products. It's portable and can be carried and use anywhere. We also stock industrial first aid kits and OSHA first aid kits. To fulfil the needs of specific industries, we have special industrial first aid kits.





Fire Siren has an array of features that can help your department or agency better communicate. The Fire Horn offers an expansive array of services. We can coordinate with various agencies to bring your department up to speed.

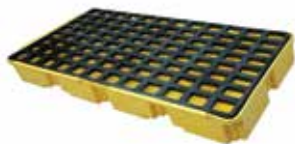


Gravity Fed Portable Eyewash Station is a high quality new LDPE material non-toxic 45L container which can provide more than 15 minutes of uninterrupted eye flushing, it is not easy to fade, not easy ageing, long service life and superior quality. It has the characteristics of corrosion resistance of chemical substances

such as strong acid, alkali, salt and oil. Gross weight : 10kg, Available Packing size : L * W * H = 560 * 520 * 630mm is Easy to use and easy to operate.



Spill Kit : Spill Response kits are designed for the work environment for quick response to a spill situation. Available in a wide range of sizes, portable, and highly visible, each kit is packed with high quality Lubetech absorbent products, including pads, socks, special absorbent pillows and disposal bags. Choose the kit that best meets your site requirements.



Spill Containment Pallet It's a high performance engineered plastic pallet for Excellent Chemical Resistance. It has external U-Channels for easy

connection to Multiple Platforms. Removable, Flat top grating for easily cleaning purposes with load capacity : 2,000 lbs comply to EPA 40 CFR 264.175. Made in the USA



Portable Aluminium Oxygen cylinder

is a Portable oxygen therapy unit which consisting of a cylinder containing compressed oxygen, Regulator with pressure gauge and flow meter. The popularity of portable oxygen tanks has significantly increased in the recent years, since these modern devices allow people suffering from respiratory or pulmonary diseases to enjoy a much more active lifestyle and a maximum level of mobility.



Water-Jel Burn Kit

is packaged in a lightweight nylon blue bag. An inner pocket is sewn-in for organization and easy access to burn supplies. These emergency burn kits are portable and fit anywhere. They can be utilized for most industrial, institutional and medical emergencies. When water gel applied to the wound these burn dressings cool the burn and quickly relieve the pain, help to stop burns from progressing deeper in the skin.



Stretchers : It's used in ambulances and have wheels that makes transportation over pavement easier, and have a lock inside the ambulance and straps to secure the patient during transport. Modern stretchers may also have battery-powered hydraulics to raise the legs automatically.



Medical Support :

AISSOL also provides vehicle customization and products for mobile health care units which plays a key role in saving life. Mobile Healthcare units today have gone beyond just being a simple ambulance used to transport a patient, they are used for many purposes like



- Mobile Health Checkup Units
- Extended Medical Facility
- Clinic on wheels
- Ambulance equipped with advance health care technology

FIRE ALARM SYSTEMS

Fire Alarm Control Panel (FACP) or Fire Alarm Control Unit (FACU) is the controlling component of a Fire Alarm System. The panel receives information from environmental sensors designed to detect changes associated with fire. The panel may also supply electrical energy to operate any associated sensor, control, transmitter or relay.

Addressable Fire Alarm

Addressable panels are usually more advanced than their conventional counterparts, with greater information capacity and control flexibility. Addressable Fire Alarm Control Panel employ one or more Signaling Line Circuits – usually referred to SLC loops – ranging between one and thirty

Conventional Fire Alarm

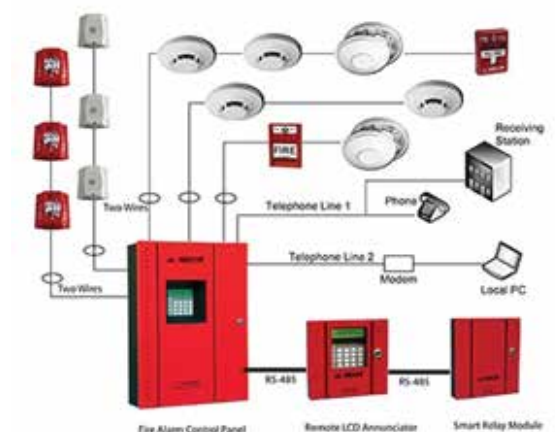
Multi zone conventional fire alarm control panels bring the latest in microprocessor technology to conventional fire controls. These FACPs provide reliable fire signaling protection for small- to medium-sized commercial, industrial, and institutional buildings. The basic unit offers multiple zones of initiation and is expandable for larger applications.

Following devices are used in Addressable and Conventional Fire Alarm Systems, Such as :

- Smoke Detectors
- Heat Detectors
- Multi Sensor Detectors
- Sounder Detectors
- Flame Detectors
- Beam Detector
- Manual Call Point
- Sounder with Flasher
- Line Isolator & Bell



Mircom™





Fire Sprinkler Systems are so designed to be completely automated. They do not require human intervention of any kind. The basic concept, is that fire will be suppressed, at an infant stage. This will stop it from spreading. As the Fire Protection System fights the fire, inhabitants can be evacuated from the building. Hence, the chances of any person getting injured or killed because of fire are very slim. Sprinkler System for Fire Fighting is a very effective method to suppress fire or the spread of fire.



Fire Hose Cabinet is located at strategic places in buildings to provide a reasonably accessible and controlled supply of water for fire extinguishing. Fire hose reel systems consist of pumps, pipes, water supply and hose reels located strategically in a building, ensuring proper coverage of water to combat a fire. System is manually operated and activated by opening a valve enabling the water to flow into the hose that is typically 25 meters away.



Fire Extinguishers are distinguished by a white colored band around the top of the cylinder. The most widely used type of fire extinguisher suited for fires. It discharges fine powder that absorbs fuel molecules, depriving the fire of a fuel source. Fire extinguishers ABC are suitable for the following types of fire:

Class A – Paper, Textiles, Wood, Most Plastics & Rubber

Class B – Flammable Liquids

Class C – Combustible Gases

Class E – Electrically Energized Equipment



Fire Hydrants are high pressure water pumps designed to increase the firefighting capacity of a building by boosting the pressure in the hydrant service when mains is not enough or when tank fed. They can also be used in water transfer & irrigation applications.



Fire Pumpset Horizontal Split Case offers superior flow performance and incorporate features for ease of installation and maintenance. New product line caters for a wider range of applications than ever before, taking the maximum flow range up to 4,000 US gpm (US gallons per minute). Compatible with both electric motors (50Hz and 60Hz) and diesel engine-drivers and pump impellers have been precision-engineered across the entire product range to best performance in terms of both flow and head. Our pump

features a double suction design for superior levels of operating performance.





FM 200 FIRE SUPPRESSION SYSTEMS : FM-200 is a clean, colourless, and environmentally friendly fire suppression agent that is electrically non-conductive and safe for humans. It extinguishes flames primarily through heat absorption, leaving no residue thus minimizing downtime after a fire. FM 200 discharges in 10 seconds or less, extinguishing a fire quickly and effectively. FM-200 Storage components consist of the cylinder assembly(s), which contains the FM-200 chemical agent, and the cylinder bracket(s), which holds the cylinder assembly securely in place. Control Panel monitors the condition of the electric actuator, detectors, warning devices, cylinder pressure, and any manual release and abort stations.

WET CHEMICAL SYSTEM Kitchen Hoods, Fume Hoods and Exhaust Hoods : System ideally suited to meet the demands associated with today's busy catering facilities an important characteristic of grease fires auto-ignition. The Wet Chemical Extinguishing agent is a potassium carbonate based solution which is discharged as fine droplets into a protected area. The fine spray discharge prevents the dangerous splash of hot grease or thermal shock damage to cooking appliances. Re-ignition is prevented by saponification, a process in which the wet chemical agent combines with the grease to form a soapy layer at the surface of grease to seal off the fuel from the oxygen, allowing the grease to cool to below it's auto-ignition temperature. The system operates at a pressure of 12 bar (175p.s.i.) providing a fine spray discharge lasting for a nominal 45 seconds.



WATER MIST SUPPRESSION SYSTEM Watermist is a versatile and highly efficient fire-fighting medium. What differentiates Watermist from traditional water based systems is its reduced droplet size. When a droplet of water vaporizes, it expands by some 1,600 times. Because heat absorption is a function of surface area and not volume, smaller droplets mean more surface area and therefore faster heat absorption. Watermist has the unique ability to deliver water as a fine atomized mist. This mist is quickly converted to steam that smothers the fire and prevents further oxygen from reaching it. At the same time, the evaporation creates a significant cooling effect of combustion gases and blocks the transfer of radiant heat.

CO2 FIRE SUPPRESSION SYSTEM Carbon dioxide or CO2 is a colorless, odorless, electrically non-conductive gas that is highly efficient as a fire suppression agent. Our Carbon Dioxide fire protection systems use intelligent, reliable and fast-acting control panels to quickly sense a fire before it can cause damage to property. Carbon dioxide gas has a high rate of expansion, which allows our CO2 fire protection system to work fast. A total flooding system quickly extinguishes both surface and deep seated fire hazards by discharging the agent into an enclosed volume. CO2 a low-cost, non-damaging, non-conductive, multi-hazard fire protectant.



FIRE & SAFETY MAINTENANCE SERVICES :

AISSOL have 10 years of service and maintenance experience committed to promote safety and security to protect life and property across major Industries such as Oil and Gas Sectors, Onshore and Offshore, Petrochemical Industries, Airport and Aviation Industries, Commercial and Residential Sectors. AISSOL Engineers & Technicians are on 24-hours a day, 7 days a week, 365 days a year for undertake emergency repairs and services. All our service technicians are qualified as well as fully trained and certified in Fire & Safety aspects.



- With a total area of more than 1000m² our Workshop with Warehouse facility is built up complied to Civil Defense specification. Section of our workshop is dedicated for product displays and allows the facility to accommodate trainings for our personnel as well as our clients.
- Our Workshop and Warehouse facility is capable of refilling cylinders for Novec 1230 and FM200 Systems, as well as servicing valves and re-pressurizing cylinders. Additionally, our facility has the capability of refilling CO₂ and Dry Powder Portable Fire Extinguishers.
- Our technical team members are equipped with self-contained vehicles and mobile technology that enables us to deal with most service problems on spot. Our Annual maintenance contract is Regular Scheduled Programs consist of :

- ✓ Calibration
- ✓ Hydrostatic Testing of Cylinders
- ✓ Filling and Refurbishment of Cylinders
- ✓ Servicing of Fire Alarm Panels, Fire & Gas Systems
- ✓ Servicing of Fire Protection Sprinkler Systems
- ✓ Breathing Apparatus Inspection
- ✓ Testing of Smoke and heat detectors
- ✓ Testing of Break glass/fire alarm bell/strobe
- ✓ Testing of Emergency lights and Exit light system
- ✓ Servicing and Testing of sprinkler system
- ✓ Servicing of Addressable & Conventional Fire Detection Systems
- ✓ Repair and replacement of components where required.



We record work performed at your site on log book or on certificate of inspection.

For quality service & maintenance of your fire and safety equipment, please contact us.





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