![POWERLINE SOLUTIONS logo]

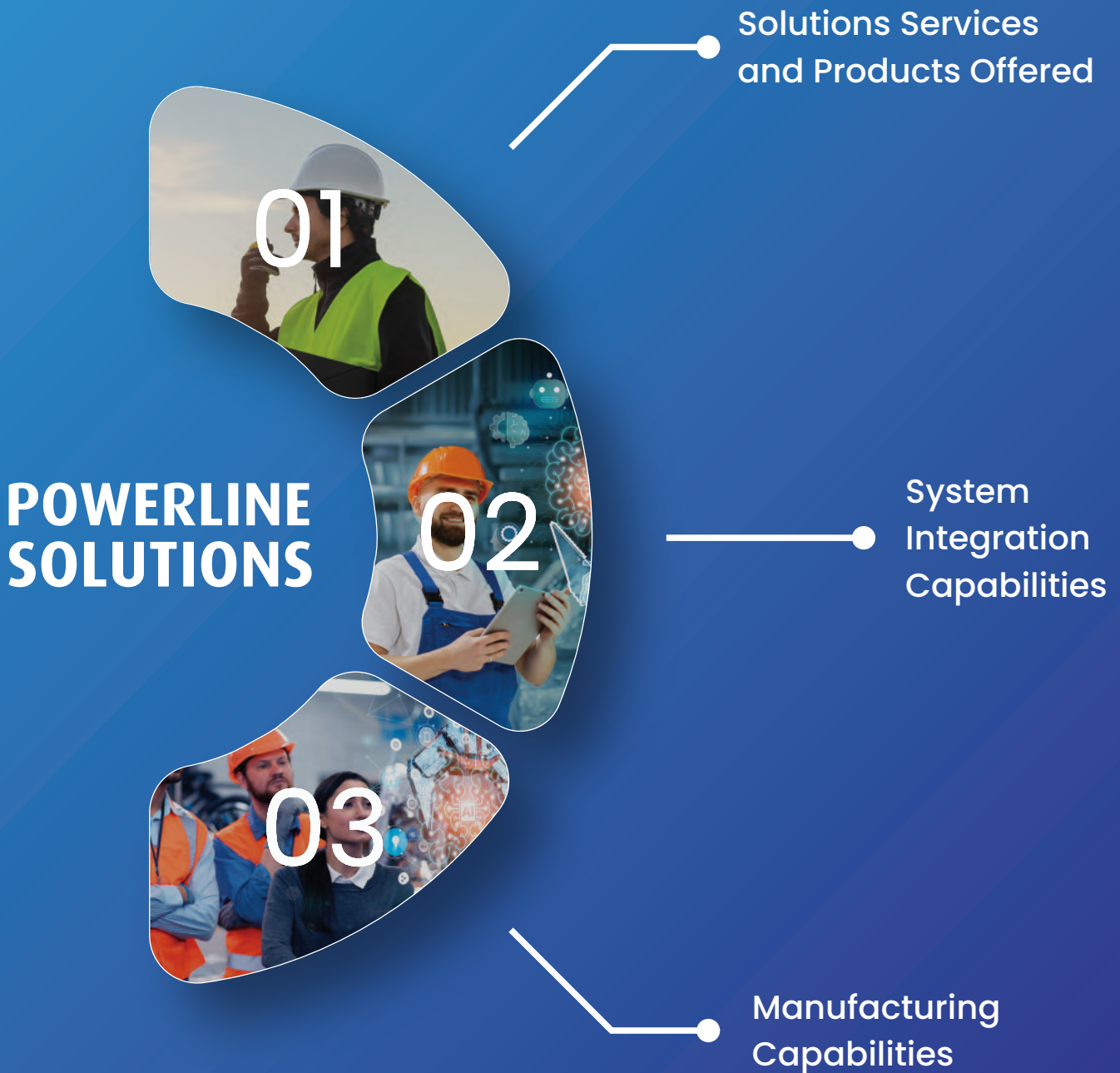# POWERLINE SOLUTIONS

# حلول خط الطاقة

# POWERLINE SOLUTIONS

## INSTRUMENTATION & CONTROL BUSINESS UNIT

www.powerlinesolutions.com

**Commencing its journey in 2007,** Powerline Solutions has set the standard for excellence in niche industrial segments, leveraging our expertise and in-depth knowledge. With a proven track record spanning almost two decades in the Saudi Arabian market, we have successfully completed several projects in core industrial segments, with the majority characterized by their challenging nature.

At **Powerline Solutions,** we are founded on the principles of leadership and impeccable commitment to our values, which form the bedrock of our operations. Our core values include Ethics, Safety, Quality, Environmental Integrity, Rigorous Training & Employee Welfare.

**Solutions Services and Products Offered**

01

**POWERLINE SOLUTIONS**

02

**System Integration Capabilities**

03

**Manufacturing Capabilities**

# Solutions Services and Products Offered:

◣ EPC Projects

◣ Supply of Specialized Equipment and Solutions: We provide a comprehensive range of

- Mechanical Equipment
- Power Transformers
- Switchgears & Protection Upgradation
- Health care systems equipment & solutions.

- Electrical equipment & Solutions
- Power Quality devices & Solutions
- Instrumentation Devices & Solutions
- Power Backup Solutions

◣ Expert Service Team: Our highly competent and factory Trained service team is equipped to handle any challenges in

- Static & rotating Mechanical Equipment
- Power Transformers
- Industrial Backup Power Systems
- Instrumentation & Control Systems

- Power System Protection
- Industrial Drives
- Power Quality Services
- Health Care Systems

# System Integration Capabilities:

- Analyzer shelter and sample handling systems.

- Containerized emergency Power Backup Solutions.

- Containerized Modular RO Packages & Modular Sewage Treatment Plants

- Modular Engineering packages for process cooling systems, chillers and chemical dosing skids.

# Manufacturing Capabilities:

- All types of gas detectors, Flame detectors, alarms and controllers.

- Critical control valves for industries such as Oil and Gas, Petrochemicals, Power, Water, Wastewater, submarine and Cryogenic applications.

- Electrical Panel enclosures and special application switchgear components.

- Diverse range of polymer and rubber products.

Partner with Powerline Solutions for impeccable commitment,  unparalleled expertise, reliability, and innovation in industrial solutions and services. Let us empower your success.

# Instrumentation : Gas & Flame Detection

Teledyne Gas & Flame Detection has brought together industry-leading products provides our customers with fixed-point and portable gas detectors, gas measurement instruments and controllers with proven reputations for quality and reliability.

· Fixed Gas Detectors
· Wireless Gas Detectors
· Portable Gas Detectors
· Flame Detectors
· Alarm Stations
· Wireless Solutions
· Customized Systems & Solutions

## Services

· Commissioning
· Planning
· Repairs Field Service
· Training
· Technical and Customer Support

# Instrumentation Division

## Major Activities of this division include:

· Installation of all Types of Instruments
· Installation of Process Instrumentation – Pressure, Flow, Temperature, Level
· Installation of Fixed & Wireless Gas Detections systems
· Installation of DCS/ PLC PANELS, Marshalling and Local control Panels
· PLC Cabinet installation
· Protection Panels installation
· Installation of all type of Valves and Actuator
· Termination of Control Panels
· Calibration of Field instruments
· Analog and Digital Cabling
· Impulse Tubing
· Loop Checking and Commissioning

**TELEDYNE**
GAS MEASUREMENT INSTRUMENTS
OLDHAM SIMTRONICS | DETECTION
GAS AND FLAME DETECTION
Everywhere**you**look™

# Gas Controllers

The gas detection controller is the main component of a fixed detection system. Connected to several detectors, it ensures continuous and permanent monitoring of areas presenting gas leak-related risks.

It is worth noting that the ATEX EN 50271 certifications and metrological performance according to EN60079-29-1 of your detection installation ensures you a safe operation.

# Fixed Gas Detectors

Fixed detectors are used to detect an abnormal or dangerous presence of gas in a specific area and to warn the user in the event of potential hazards. Equipped with sensors (called cells), they can measure the concentration of one or more types of gas, depending on the model.

Unlike portable detectors, fixed detection devices make it possible to secure an entire area 24 hours a day. They can also be connected to a detection system, which displays the gas concentration in numerical value, and then triggers the servo-controls in the event of an abnormal value.

# Wireless Gas Detectors

Teledyne offers a wide range of wireless gas detection solutions. Our equipment allows you to secure a very wide working area regardless of the field of work. Wireless gas detectors help solve a critical safety problem in remote applications by providing a reliable and cost-effective gas detection solution.

Teledyne offers a wide range of wireless gas detection solutions. These advanced field devices consist of a CXT low power gas detection sensor and wireless transceiver packaged in a single enclosure. Power is provided by a disposable "C" cell battery pack capable of continuous operation for greater than 60 days. Additional power options include a Smart Rechargeable battery with a run time of 5-6 months, a disposable "D" cell battery pack with a run time of 9 months and solar panel providing continuous operation.

# Portable Gas Detectors

Utilizing the latest gas detection technology in a robust and reliable design, the Teledyne GMI is a highly configurable instrument with leading performance and a user-friendly interface which makes it the perfect choice for all gas utility applications. Teledyne GMI is a world leader in the design and manufacture of high quality and innovative

portable gas detectors, specifically designed for the oil and gas, chemical and shipping industries world-wide. Teledyne GMI continues to invest heavily in research and development, a high percentage of which is spent on the development of state-of-the-art instruments and new sensing technologies. Teledyne GMI is ISO45001: 2018, ISO14001 and ISO9001: 2015 approved, BSI registered and a member of the council for gas detection and environmental monitoring (COGDEM).

# Flame Detectors

Teledyne detectors are used to detect multiple types of flames within a specific area and warn you of danger. Equipped with state-of-the-art technology for optimal detection, they allow you to secure your business sites, even in the most challenging environments. Our optical flame detectors meet the needs of all industries requiring state-of-the-art detection equipment. Programmable, they allow customization adapted to individual requirements.

Teledyne Flame Detection offers detection solutions that precisely meet the needs of the most demanding professionals.

# Alarm Stations

The audio-visual alarm station is designed for installation and use in heavy industrial environments. The alarm station consists of a beacon and alarm horn. The warning light comes in field interchangeable dome colors of amber, blue, clear, green, red, yellow and magenta.

The hazardous location combination alarm horn sounder & beacon/status warning light is UL/cULs/ULC approved for Class I Div 2, Class II Div 2, Class I Zone 2/22 as well as IECEx and ATEX certified for Zone 2 and 22 applications.

Teledyne SmartWireless® audio-visual alarm stations are easily and economically deployable in both permanent and temporary installations. These devices feature a battery powered audio-visual alarm station designed as a wireless cordless system component.

# Wireless Solutions

Teledyne Gas and Flame Detection's equipment is durable and versatile, and suitable for a wide range of industries including refineries and pharmaceutical production.

# AZBIL CORPORATION

We solve problems at factories, plants, and a variety of other production sites by providing products, solutions, instrumentation, engineering and maintenance services to support optimal operation of our customers' facilities and equipment throughout their life cycle. Through collaboration with the people involved in production, we develop advanced measurement and control technologies, strive to realize production sites where workers can safely develop their skills, and create new value for our customers.

Production, sale, and export of automatic control valves. Maintenance, repair, engineering, consulting, sales promotion and training related to measurement and control instruments and systems in Saudi Arabia.

# Pressure Transmitter

A wide variety of pressure gauges (pressure transmitters) and differential pressure gauges (differential pressure transmitters) developed based on Azbil's rich experience are available.

# Flowmeter

Flowmeters that meet your needs, including maintainability and energy saving

# Temperature Transmitter

With our extensive experience at production sites, we offer temperature indicating controllers that meet your needs.

# Control Valve

We satisfy the needs of a wide range of industries with a product lineup that includes highly reliable control valves.

# Valve Positioner

Our Smart Valve Positioners support the latest HART® protocol, FOUNDATION™ Fieldbus standard, and FDT standard, and have enhanced diagnostic functions for control valves.

# Analyzers for calorific value

We have a lineup of analyzers ideal for analyzing and measuring the calorific value of natural gas. In addition to component analysis, the products can also be used to check the combustion efficiency of gas turbines/engines, furnaces, etc.

The Model CVM400 Natural Gas Calorimeter measures the thermal conductivity of a gas mixture such as natural gas at different temperatures and calculates the calorific value of the gas based on its thermal conductivity.
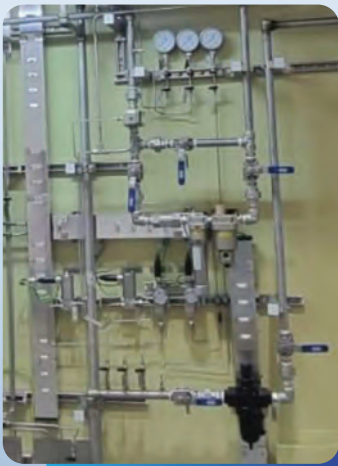
# System Integration & LSTK Projects
# Instrumentation & Analyzers

At Powerline Solutions, we offer an extensive selection of process instruments and analyzers tailored to meet the diverse requirements of various industries and applications. Our unwavering commitment to precision, innovative technology, and comprehensive process solutions ensures that our offerings enhance process control, facilitate effective troubleshooting, and support informed decision-making.

For those seeking dependable process instruments for specific applications, Powerline Solutions stands ready to assist. Please contact one of our experts to acquire further information or to initiate the procurement process.

The general scope of work for the Instrumentation and Control Business Unit at Powerline Solutions encompasses a range of activities, including the provision of construction materials and essential instrumentation and analyzer equipment. Additionally, the scope includes the installation of analytical, instrumentation, and automation systems. Furthermore, comprehensive testing of supplied and contractor-issued equipment, along with system commissioning, is also integral to our operations.

# Instrumentation Field Services

## Repair & Field Services

· At Powerline, we provide comprehensive repair and commissioning services for all your instrumentation needs
· Our services include on-site services, factory-trained technicians, and in-house services

## On-Site Service

· Include factory-certified technicians who will commission, troubleshoot, and repair
· Our Engineer and Technician will verify the installation using software and ensure accurate readings

## In-House Service

· Includes Calibration facility, where we can test and calibrate instruments after service
· Provide complete digital control and instrument testing
· We can complete Factory Acceptance Testing on complete systems and software prior to shipping to the field
· Powerline offers complete and reliable repair and commissioning services for all your instrumentation requirements

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