Kele
INDUSTRIAL AUTOMATION

SERVICES & SOLUTIONS

- *Control Systems*
- *Valve Automation*
- *Instrument Specification*
- *Boiler Optimization and Tuning*
- *Process Heater Control Systems*
- *Panel Design*
- *RFID and Barcode System Design*
- *Systems Maintenance*

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ENGINEERED SOLUTIONS

Comprehensive suite of engineered solutions tailored to your needs through a wide range of services. From cutting-edge panel design, valve automation, instrument shop services, to expert heat trace design and custom hardware solutions, we have you covered.

Valve Automation Services

With more than 60 years of expertise, Kele Industrial Automation has earned a reputation for quality and reliability, committed to delivering precise control for processes across sectors such as chemical, pharmaceutical, oil and gas, power generation, and water treatment.

- Custom hardware design
- Brand agnostic valve assembly capabilities
- Factory trained technicians

Stocked for Quick Turnaround

Our facility is stocked with a range of valves and components for different types of assemblies, so we can provide rapid turnaround times to meet your urgent needs.

Our inventory is carefully curated to ensure a wide selection of components on hand for quick and efficient customization and delivery of valve automation solutions.

- Functional testing
- Electric and pneumatic actuation
- Performance optimization
- Valve assemblies
- Start-ups and commissioning
- Custom hardware design
- Installation
- Panel design

Instrument Specification

Diaphragm Seal Assembly-Filling

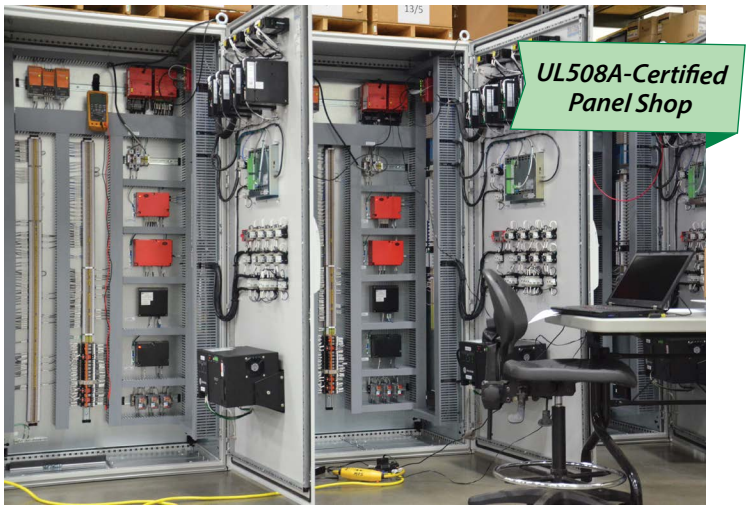
Our large inventory of diaphragm seal parts allows our factory-trained technicians to custom build an instrument assembly and fill virtually any seal type to meet your specific needs.

- Differential pressure and gauge pressure transmitters
- Gauges and switches in stock
- Seals: flush flange, flanged offline, chemical tee, pancake, sanitary, inline, saddle, button and mini-seals, threaded, or all-welded
- Cooling elements, capillaries, and wall mounting brackets as needed for your application and environment

Instrument Configuration

Whether you prefer to use HART, DE, or Foundation Fieldbus communications, our team can configure instruments to your specifications, ensuring your systems are perfectly tuned and connected.

Panel Design Services



Expertly Designed and Built Panels

The Kele Industrial panel team pays meticulous attention to the functional requirements design of your custom panel, the quality of each component selected, and industry standard wiring practices as we build your panel.

Panels are available in a variety of enclosure sizes and materials, with the instrumentation you need — from simple power, digital indicators, or data acquisition to advanced burner control systems and industrial internet systems — and ship to you complete with drawings and diagrams.

Each panel that leaves our facility is designed and built to UL508A standards, and has been factory acceptance tested (FAT) for quality assurance, so you know it's ready for your application on arrival.

CONTROL SYSTEMS

Get the engineering help you need with process and system modernizations, upgrades, and migrations using DCS, PLCs, RTUs, SCADA and more. We specialize in seamless integration of cutting-edge technologies, optimizing industrial processes and ensuring safety.

Central Utilities Plant

Boiler Controls

Get comprehensive boiler combustion control systems, ranging from precise single-point positioning to fully metered-cross limited control. Our offerings include:

- Boiler plant master
- Boiler flame safety
- Boiler combustion control
- DA and condensate control
- Boiler feedpump control
- Oxygen trim
- Drum level
- Draft control

Our custom intuitive Human-Machine Interface (HMI) consolidates burner management with first-out annunciation, providing a unified control center. Each system is seamlessly integrated for effortless operation and troubleshooting.

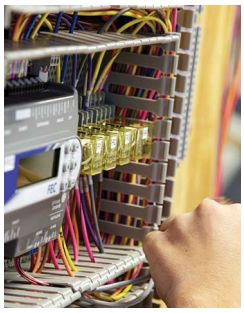
We also offer control of the balance of the plant, including crucial elements such as DA level and pressure, steam header pressure, and sequencing of boiler feedwater pumps.

Chiller Controls

- Chiller plant master
- Chilled water control
- Chiller and cooling tower staging
- Chiller and condenser pump staging

Operating more chillers than necessary to maintain space temperature conditions is an issue for all plant operators. We can provide a fully integrated system to stage and sequence chillers based on real-time chilled water demand, optimizing performance. Our team can also calculate and manage cooling tower, chilled water, and condenser pump requirements and stage them accordingly to ensure efficiency at every step.

Process Controls



Tailored solutions for precise control, repeatability, and ease of operation in industrial processes, including:

- Continuous process control
- Batch control
- Water and waste water
- Fire and hazardous gas monitoring
- Tank management and level control
- Vacuum presses

Heat Management Systems

- Electric heat trace
- Full system heat trace audits
- Engineering and design
- Isometrics
- Control, monitoring, and sensing

Process Heater Controls

- Gas and electric heater control systems
- Kiln control
- Furnace control
- Dryer control
- Dow therm safety and control
- Lube oil and fuel oil heating

Communication Systems

Our team can design, assemble, and program wireless I/O systems to distribute signals from discrete, analog, serial, and Ethernet devices to your plant network without the cost of running conduit.

Solutions

Kele Industrial Automation offers several pre-built solutions available to order directly from our website. They include the instrumentation, power supplies, relays, terminal blocks, DIN rails, and other essential accessories, already built and tested, ready to drop directly into your application.

Our panel warehouse stocks enclosures and panel components in the most popular sizes and configurations from the brands you trust. Any instrumentation you need installed in a panel, we can build it for you:

- Enclosures with digital indicators pressure, temperature, level, flow, or any process variable you need to display
- Paperless recorder systems for data acquisition
- Combustion control and flame safeguard system panels
- Loop controllers or full modular control systems in field-safe enclosures
- Wireless gateway or wireless field I/O systems
- Panel solutions for gas analytics and moisture monitoring

FIELD SERVICES

Kele Industrial Automation offers field service and technical support including emergency repairs and operator training. With more than 50 years of experience in process and combustion controls, we have the expertise to provide you with unrivaled customer service.

Maintenance

24/7/365 Emergency Service

Get 24-hour service and support by phone, virtual appointment, or in person. Our technicians are available for emergency assistance, and our extensive inventory allows them to replace damaged products quickly, minimizing downtime.

Troubleshooting and Remote Support

Address any technical issues you encounter quickly, conveniently, and efficiently with remote phone or video support and troubleshooting.

Service Contracts

Routine maintenance performed under service contracts keeps systems operating at maximum efficiency and often prevents shutdowns. Service contracts guarantee priority response, keeping emergency downtime to a minimum.

Gas System Sensor Calibrations

Regular calibration is the easiest way to ensure worker confidence in your gas detection systems. Field Service technicians will come to your plant on a scheduled basis for:

- Electrochemical cells and catalytic bead sensor calibration
- Zero calibration and annual bump tests on infrared sensors
- Response checks on open path sensors and paper tape toxic gas detector cartridges

Our calibration technicians follow manufacturer's specifications, and document the full scope of work. Every visit, you'll get full documentation of the calibration results, so if there's ever an issue, you have the reports to prove that your plant safety systems are being properly serviced and maintained.

Gas System Functional Tests

Knowing that your gas sensors are working properly is half the battle. Functional tests help you ensure that the sensor outputs work as expected: sounding alarms, turning on lamps, sending signals to your PLC, or notifying the local fire department.

After reviewing your cause and effect matrix, a Field Service technician will run functional tests to make sure the whole system is working as expected.

Combustion and Flame Safety System Services

Boiler Optimization and Tuning

We have been tuning boilers for more than 50 years. Our combustion technicians have extensive training and experience in burner management and combustion control systems. They are available to ensure your boilers and furnaces are operating safely and efficiently.

Our team continues to innovate with safety in mind by providing systems on boilers from 100 HP to 80,000 PPH, firing natural gas, fuel oil or coal. Call us for help with your burner management systems, cross limited systems, parallel systems, and jackshaft systems.

Safety Inspections and NFPA Audits

Combustion equipment is the backbone of many industrial processes, but it also poses significant risks if not properly maintained and monitored.

Our expert team conducts meticulous inspections and assessments to identify potential hazards, ensuring your systems comply with NFPA safety standards and regulations.

Installation and Configuration

Commissioning and Startup Services

- Verification of control loop wiring with comprehensive documentation
- Programming and calibration of field instrumentation, including pressure, level, and flow transmitters
- Integration of analytical instruments
- VFD programming and start-up
- Implementation of HART Systems
- Troubleshooting and upgrading of existing systems
- Training sessions for operators and end users

Instrument Calibration

- On-site testing and calibration for your critical instruments
- Complete record of the calibration for future reference
- Trained technicians
- Certified calibration equipment

On-site and Remote Training

Our technicians are factory trained in the latest products, technology, and best practices. As a result, we can train your personnel so your facilities operate at maximum efficiency. We offer both on-site and remote location training:

- **Product Training** – Train plant personnel in the set-up and operation of specialized instruments and products.
- **Operator Training** – Train personnel in the safe and efficient operation of combustion and process systems.

On-site services may require additional fees for time and travel.

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