Hazard and risks are an inherent part of any industrial application and process safety is a major concern to anyone who works in process industries. The protection of personnel, processes, and the surrounding environment remains a significant part of any automation strategy. We offer industry and technology-specific expertise to address unique production challenges. Our commitment is to help reduce project risk and provide solutions specific to the companies we support locally and globally. Across industries and processes, companies can leverage our global experience and the resources within our PartnerNetwork™ to tailor solutions and services capabilities to meet their needs.

With over 50 years of safety experience, Rockwell Automation® technology is utilized in safety and critical control processes throughout the world.

**A Safety Solution for Industry Challenges**

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With over 50 years of safety expertise, Rockwell Automation technology is utilized in safety and critical control processes throughout the world. Our ICS Triplex® brand of safety critical shutdown has been a recognized leader in process industries creating maximum availability and reliability for a host of applications.
Burner Management Design Features Include:

- Every channel on each I/O module is periodically tested to verify its ability to detect field device state changes to the “fail-safe” position
- Critical outputs are monitored by feeding back the status of the output as a separate input signal and comparing it to the state demanded by system logic
- The use of software passwords help guard against unauthorized modification of the controller’s program
- A hardware trip circuit which allows the operator or the system watchdog to initiate a main fuel trip
- Start-up, first out, and system alarm/diagnostic messages
- Communication with other Rockwell Automation programmable automation controllers or operator terminals
- Adaptable to any fuel combustion applications with single or multiple burners

Burner Management System for Safety Solutions

A burner management system (BMS) is a safety solution that manages a combustion system and is responsible for:

- Start-up and main flame detection
- Control and monitoring
- Shutdown sequences

Rockwell Automation burner management systems are engineered to provide igniter (pilot) and main flame detection, as well as control and monitoring of burner start-up and shutdown sequences.

These systems can help protect people, your combustion process equipment, and surrounding areas in the event of an explosion or hazardous incident. You may qualify for lower insurance premiums resulting from compliance with applicable industry standards such as NFPA, IRI and FM.

BMS includes alarm management and operator displays. These features help simplify unit operation while reducing start-up time. Advanced diagnostics and operator help messages can reduce critical troubleshooting time through the use of pinpoint diagnostic messaging and reporting capabilities to other systems in your facility.
Applying Rockwell Automation Process Safety Offerings

Rockwell Automation provides you with multiple choices for your process safety applications allowing you to select the right-sized system without extra costs.

**AADvance System**

The AADvance® solution is a truly distributed, scalable architecture which comprises both a hardware controller and a software environment that allows you to specify the level of safety integrity and availability you need throughout your plant. AADvance offers a high level of flexibility from small quantity I/O to large systems; non-safety to SIL 3, and fail-safe to multiple fault tolerant.

**ControlLogix SIL2**

The ControlLogix® controller with 1715 redundant I/O SIL2 solution provides high levels of availability for SIL2 Basic Process Control Systems and/or Process Safety System applications that cannot tolerate a system shutdown. The ability to use standard, off-the-shelf ControlLogix solutions in SIL 2 applications can yield exceptional savings by minimizing the need for additional training and offering readily available spare parts.

**Trusted System**

The Trusted® solution features a Triple Modular Redundant (TMR) controller. It is designed to provide maximum safety and system availability. Trusted® uses control to minimize system trips and provides high availability, fault tolerance and fail-safe features as part of its intrinsic, safety-related functionality. The Trusted solution offers high density I/O, up to 40 channels per module, in a small footprint that allows for a large SIS architecture in a small amount of space.

**OptiSIS Packaged Solutions**

Compliant with ISA 84/IEC61511, the OptiSIS™ safety instrumented system is an ideal solution for diverse SIS replacement/upgrade projects, utilizing a standard solution. Featuring a standard logic solver capable of meeting SIL requirements up to SIL 3, it is simpler, faster, and more cost-effective to deploy than a custom-designed SIS solution.

**Integrated Control and Safety System (ICSS)**

Rockwell Automation can provide flexible and scalable process control and safety solutions that easily allow implementation strategies to best meet your integrated control and safety system needs.
Rockwell Automation uses Safety Instrumented System (SIS) products that are certified to the following standards:

- **IEC 61508** – Functional safety of electrical/electronic programmable safety-related systems
- **IEC 61511** – Functional-safety: Safety instrumented systems for the process industry sector
- **NFPA 72** – National fire alarm and signaling code
- **NFPA 85** – Boiler and combustion systems hazard code
- **NFPA 86** – Standards for ovens and furnaces
- **EN54** – Fire Alarm control panels
- **EN298** – Automatic gas burner control systems for gas burners and gas burning appliances with or without fans
- **EN50156** – Electrical equipment for furnaces and ancillary equipment: Requirements for application design and installation
- **UL 508** – Industrial control equipment.

For more information, please visit: www.rockwellautomation.com/process

Rockwell Automation, Inc. (NYSE:ROK), the world's largest company dedicated to industrial automation, makes its customers more productive and the world more sustainable. Throughout the world, our flagship Allen-Bradley® and Rockwell Software® product brands are recognized for innovation and excellence.

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