Yokogawa's system platforms combined with proven execution experience provide the highest quality and innovative solutions for secure and optimized process automation and management. Yokogawa's global customer centric focus together with strong local support reduces users' business risks and provides the lowest total cost of ownership. With a long history of progressive compatibility, Yokogawa is your dependable automation partner.

Yokogawa’s commitment

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OpreX™

Yokogawa achieves operational excellence by providing products, services, and solutions based on the OpreX comprehensive brand that cover everything from business management to operations.

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Visit our website at:

- Functional Safety Standards
  - EN 61508
  - IEC 61511
  - IEC 62061
- Application Standards
  - EN 16100-6-2, 3-2, 3-3
  - EN 50156-2
  - IEC 61800-5-2
- Safety Standards
  - CE Marking
  - Class 1 Zone 2
- PLC Standard
  - IEC 61131-2
- Explosion Protection
  - Class I Division 2
  - IEC 61204-1
- Marine Standards
  - American Bureau of Shipping (ABS)
  - Bureau Veritas (BV)
  - Lloyd’s Register
  - DNV GL

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ProSafe-RS

**Excellent Standalone SIS**

A world class Safety Instrumented System (SIS) for dependable plant safety. Solutions for process safety anywhere.

### Advanced HMI

Intuitive Human Machine Interface for daily operation, maintenance, test, and emergency response.

### Supporting Open Communication

Modbus/TCP, RTU, DNP3 and OPC support for communications to other systems using standard industry interfaces.

### Proven Solutions for ESD, F&G, and BMS Applications

- Complies with major industry standards for Emergency Shutdown (ESD), Fire and Gas (F&G), and Burner Management System (BMS) applications
- Direct connection of field signals with variety of I/O modules
- Line monitoring for all I/O
- Explosion-proof

### Safety and Availability

- Achieves SIL3 with single CPU and I/O
- Highest availability provided by Yokogawa's unique "Versatile Modular Redundancy (VMR)" technology
Yokogawa’s system platforms combined with proven execution experience provide the highest quality and innovative solutions for secure and optimized process automation and management. Yokogawa’s global customer centric focus together with strong local support reduces users’ business risks and provides the lowest total cost of ownership. With a long history of progressive compatibility, Yokogawa is your dependable automation partner.

### Functional Safety Standards
- EN61508 + IEC61508
- EN62541

### Application Standards
- EN50121
- EN50159
- IEC61800

### Safety Standards
- IEC61508
- IEC61511
- IEC62061

### ProSafe-RS
- Safety Instrumented System
- Communication Module Model Interface Protocol
  - Serial communications: A L R 111 RS-232C Modbus RTU
  - A LR121 RS-422/RS-485 Modbus RTU
  - Ethernet communication: A L E111 Ethernet Modbus / TCP,
    - DNP3

### Fire and Gas Communication Module
- S2LP131 Ethernet PROFINET

### I/O Module Lineup

<table>
<thead>
<tr>
<th>I/O Module Model</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA1441</td>
<td>4-20mA</td>
</tr>
<tr>
<td>SA1451</td>
<td>4-20mA</td>
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<tr>
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</tr>
<tr>
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<td>4-20mA</td>
</tr>
</tbody>
</table>

### Applicable Standards

- [IEC61508](https://www.yokogawa.com/solutions/products-platforms/control-system/safety-instrumented-systems-sis/)
- [IEC61511](https://www.yokogawa.com/solutions/products-platforms/control-system/safety-instrumented-systems-sis/)
- [IEC62061](https://www.yokogawa.com/solutions/products-platforms/control-system/safety-instrumented-systems-sis/)

### Opnex™ Control and Safety System

- Standalone SIS
- ProSafe-RS
- Safety Instrumented System

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