

PLANTS SAFE SYSTEMS

Complete Safety System Solutions from Net Safety

Net Safety System Solutions is a product-independent system provider. We specialize in complete, fit-for-purpose technology solutions for F&G (Fire & Gas) and ESD (Emergency Shut Down) Systems with up to SIL 3 certification. What sets us apart is the ability to provide our customers with the total package — a specialized engineering solution within a wide range of specifications with full support. We utilize the most efficient and cost-effective combination of products and services for your specific application — and we fully support the entire package, from the HMI all the way to the field devices. One source, one call for all aspects of your safety system.



Flame and gas detection has been our business for almost 20 years, our team of safety experts will work with you every step of the way to provide you with the optimum system solution, custom-built to meet your application requirements. Every system offered by Net Safety has been proven in the industry worldwide and engineered to the strictest global standards. Designed with a modular approach, our solutions can be easily integrated into legacy systems, offer complete expansibility, and utilize the latest technology available.

CORE ACTIVITIES OF NET SAFETY SYSTEMS DIVISION:

- PROJECT MANAGEMENT OF SAFETY SYSTEM
- PROJECT ENGINEERING
- HARDWARE DESIGN/PANEL DESIGN
- FULL DOCUMENTATION
- PANEL FABRICATION
- SOFTWARE DESIGN AND DEVELOPMENT
- FACTORY ACCEPTANCE TESTS
- SITE ACCEPTANCE TESTS
- COMMISSIONING AND START-UP ACTIVITIES
- POST SALES SUPPORT SERVICES

PLANTS SAFE SYSTEM PROFILES

The **PLANTS SAFE 8000** is a PLC based solution approved for SIL 2 applications as per IEC 61508/61511 by TÜV for safety system applications. The system can be configured with dual or simplex CPU with simplex I/O. The system's rugged open control platform incorporates Modbus TCP with built-in Fault Tolerant Ethernet (FTE) for redundant communications, providing you simple but secure connections to a wide range of standard software and hardware packages. This unique open approach allows users flexible migration paths. Connect to yesterday's legacy control systems, interface with the most up-to-date instruments and software packages and look forward to the products that aren't even developed yet — knowing that the PlantSafe 8000 will connect to them.

FEATURES OF THIS SYSTEM ARE:

- SIL 2 Certified
- Certified to Class I Div II
- Conforms to NFPA 72/85
- IEC 61131 Programming
- UL/CSA Approvals



The **PLANTS SAFE 7000** is a SIL 3 PLC based F&G system utilizing single rack and multiple rack system platforms. All systems are TÜV certified to SIL 3 according to IEC 61508 and meet all the requirements of IEC 61511 for when used as part of a F&G system. The system is inherently safe, achieving SIL 3 without the need for voting or redundant modules, and without any "degraded modes" or "time restrictions" for SIL 3 operation. It can also be configured as fully fault tolerant, providing maximum availability with SIL 3 safety.

FEATURES OF THIS SYSTEM ARE:

- TÜV Certified to SIL3, NFPA 72, and NFPA 85
- TÜV Certified SIL 3 communications via safeethernet
- Class I Division II - CSA, FM, FMC, UL, ULC Approvals
- Simplex or Fault Tolerant Configurations (scaleable)
- IEC 61131-3 Programming • TÜV Certified Function Blocks
- Guaranteed seamless integration with any BPCS



The **PLANTS SAFE 6000** is a SIL 2 or 3 PLC F&G system utilizing a range of intelligent safety PLC's and remote I/O blocks (safety nodes). The PLC's and remote I/O blocks are connected via high speed safeethernet – using standard Ethernet networking hardware and TÜV certified for SIL 3 integrity between each. The safeethernet network can be implemented in a high availability "ring" architecture allowing you to distribute your safety processing nodes throughout the plant – where ever you need them, providing significant saving in home run cabling. The PlantSafe 6000 is built on proven inherently safe technology SIL 3 certified "out of the box", with no user configuration engineering required. PLC nodes start at just eight I/O with a comprehensive variety of remote I/O blocks, the small size and low cost make it an ideal fit for distributed applications with low I/O counts – but flexible enough to build large networks of safety protection.

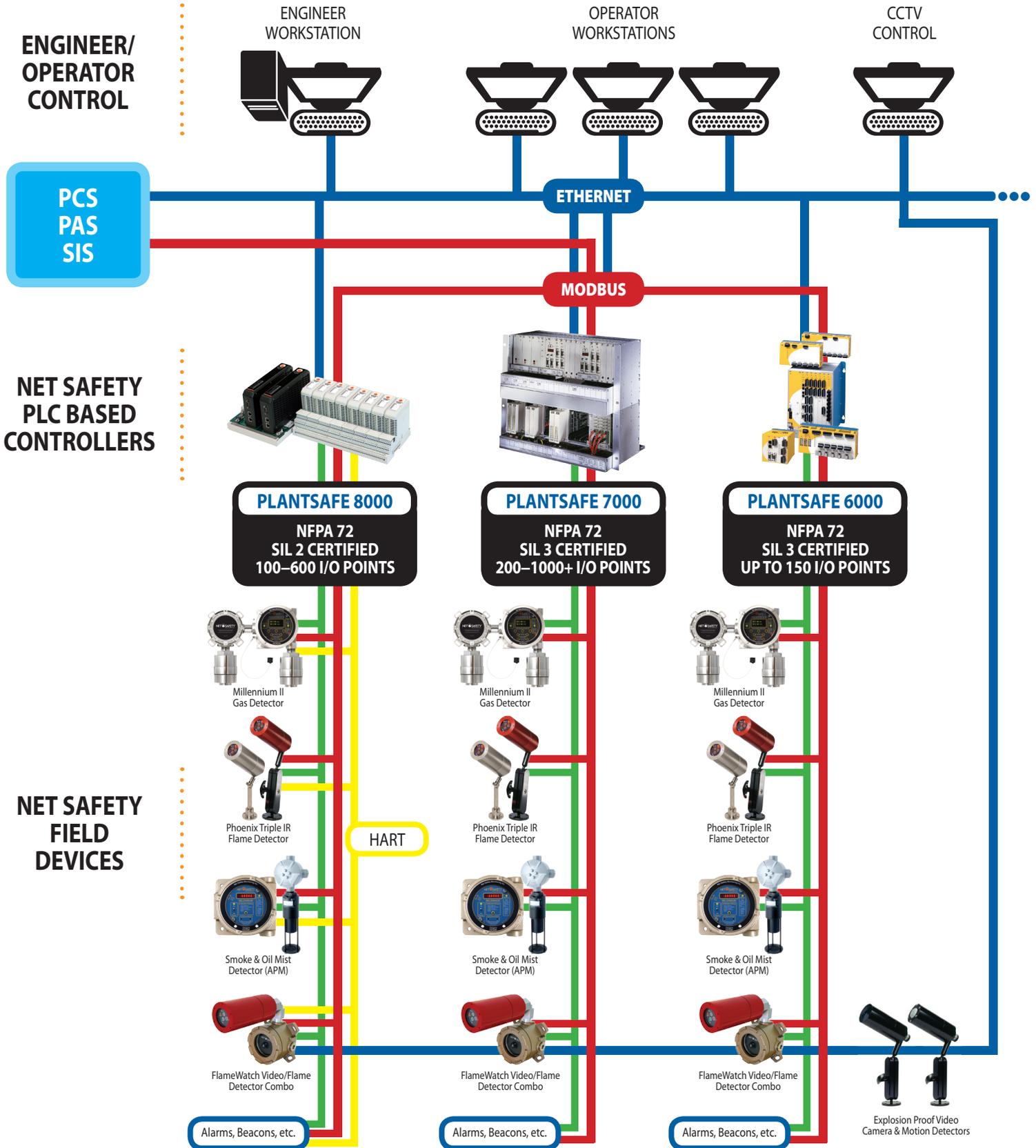
FEATURES OF THIS SYSTEM ARE:

- TÜV Certified for up to SIL 3 applications and NFPA 72/85
- Easy DCS integration using same safeethernet network via OPC DA, Modbus TCP, Ethernet IP or Serial using Modbus or Profibus on RS-485 networks
- IEC 61131-3 Programming
- TÜV Certified Function Blocks
- Connected by TÜV certified safeethernet
- Certified to Class I Division II - FM, FMC, UL, ULC Approvals
- Low cost, scaleable architectures



Net Safety can design, engineer, program and commission any system to your precise application logic.
Call 1-866-FIREGAS (347-3427) or email systems@net-safety.com

PRODUCT ARCHITECTURE



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