

Welcome to a Safer Future



Hi-Pro Electronics®

Marine Automation & Telecommunications

Boiler Control System



Hi Pro Electronics Solutions

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Hi-Pro Electronics

ABOUT US

Hi Pro Electronics is a customer focused control system engineering company specializing in PLC, SCADA, RTU, automation, control, telemetry, electrical engineering, functional safety, IT & OT networking and energy management systems. The business was incorporated in 2020 and is 100% Greek owned and operated, with our Head office located at Salamis Island in Greece.

From modern purpose fitted out premises, the company employs a team of experienced and professional engineers who provided marine & industrial software solutions from the factory floor to the resource planning and management levels of large organizations throughout Greece.

As a systems integration company, we specialize in control systems engineering and real-time software development for a diverse range of hardware platforms. We have recognized systems integration relationships with the major PLC, SCADA, RTU, telemetry and network vendors. Our trained engineering and network professionals offer custom product solutions across multiple industries including marine, defense, water & waste-water, transportation, infrastructure, power & energy and manufacturing solutions.

As an electrical engineering company, Hi Pro Electronics provides electrical design services to tightly integrate both the electrical infrastructure and control system to ensure the entire electrical system and associated processes function as intended.

Hi Pro Electronics provides all facets of control system engineering services from project management and conceptual design right the way through to final site commissioning. In addition to this, Hi Pro Electronics provides a dedicated 24/7 support service.



Boiler Control System

Comprehensive management and combustion control system for auxiliary, composite and exhaust gas boilers for ships.

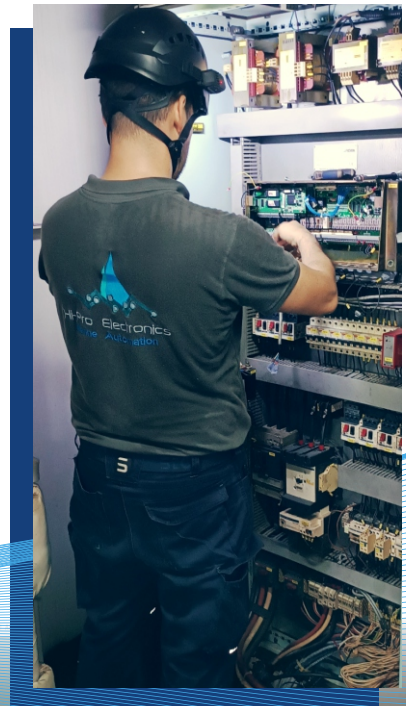
Hi Pro Electronics, has developed a distributed control system (DCS) based boiler automation system to take full advantages of a plant's productivity and improve operations by precisely controlling fuel and combustion air. The result is maximum efficiency gain, reduced operating costs and lower emissions to the atmosphere.

The smart control system is built on a future-proof architecture designed to meet the evolving needs of boiler processes and to achieve high reliability and enhance boiler safety on board.

Benefits of our Intelligent Boiler Control System

The Intelligent Boiler Control System delivers value by improving the plant's integrity, optimizing resource usage and reducing the total cost of operation and maintenance.

-  Seamless integration with third-party interfaces
-  Scalable system with modular control panels
-  Reliable hardware component
-  Reduced downtime and easy troubleshooting
-  Alarms and trends with custom configurations
-  Self-diagnostic testing process to assist in fault-finding and service
-  Optimized energy requirements
-  Reduced greenhouse gas emissions
-  Real-time remote access and condition monitoring (optional)

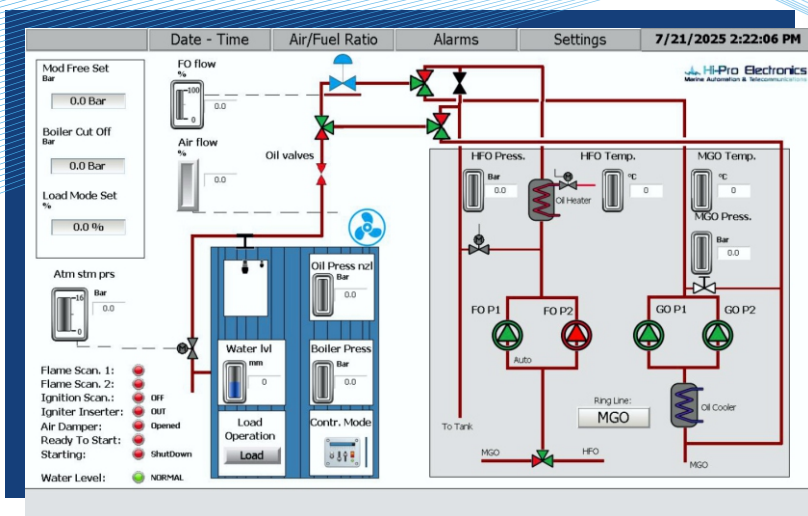


Boiler Automation

The Intelligent Boiler Control System is an intuitive and highly reliable solution with customizable features to improve boiler operations and uptime. As a turnkey solutions provider, we provide end-to-end service for our clients including design, engineering, system integration, installation and upgrade of control systems for a wide range of auxiliary, composite, and exhaust gas boilers for marine applications.

Boiler Control System Scope of supply

-  Design and build state-of-the-art bespoke control panels
-  Seamless retrofit and upgrade from existing systems of all major brands
-  Design and testing of the graphical user interface (GUI) in accordance with customer requirements and processes
-  Type-approved controller with firmware upgrades and extended product life cycle
-  Broad range of critical spares and replacement parts for boiler controllers and burners to support leading boiler brands
-  Pre-inspection, engineering and document management for classification approvals
-  Installation and commissioning with minimal disruptions to operations



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