

ETC

Energy • Technology • Control



ETC6000 Series Burner Control System

ETC6300 Burner Control System

The ETC6300 Control is a compact, single fuel, IoT-enabled solution for lighter industrial installations. It delivers the same advanced features as ETC's larger dual fuel systems, tailored for decentralised operations and space-constrained environments.

Features:

- **System Monitoring:** Flame and air pressure monitoring.
- **Safety Control:** Fuel valve shut off control.
- **Leak Testing:** Gas valve leak testing.
- **Temperature Regulation:** PID control for boiler temperature or pressure by modulating fire rate.
- **Fan Speed Control:** Combustion fan speed control with speed feedback as either current signal or pulse signal.
- **Combustion Curve Settings:** Two combustion curve sets using up to 3 actuators.
- **Digital Inputs:** Six programmable digital inputs for burner or plant interlocks.
- **Communication Protocols:** Modbus RTU communications built-in and ProfiBus communications (with external device).
- **IoT Integration:** Connects seamlessly with IoT networks for remote monitoring and control.
- **Customisable Configurations:** Adaptable to various applications, ensuring flexibility and scalability.

Benefits:

- **Cost-Efficient:** A lower cost solution for single fuel burner applications (compared to ETC6000).
- **Enhanced positioning accuracy:** Rotary actuators with a positioning accuracy of $\pm 0.1^\circ$ replace conventional characterising cams and linkages and eliminates backlash and hysteresis.
- **Energy-efficient performance:** Improved combustion and improved turndown saves up to 5% on fuel costs and significantly reduces harmful CO₂ and other flue gas emissions.
- **Pre-emptive maintenance ready:** Prolongs boiler life and reduces maintenance downtime.
- **Energy saving strategies:** Using a second setpoint during periods of low demand can save up to 10% in fuel usage.
- **Space-Saving Design:** Ideal for compact installations while maintaining high performance.
- **Future-Ready:** Supports Pre-emptive maintenance and integrates with smart boiler room systems for modernised operation.

The ETC6300 Burner Control System provides advanced burner management solutions specifically designed for small industrial and large commercial installations, offering a perfect balance of efficiency, reliability, and cost-saving features. Tailored to meet the demands of smaller-scale applications, the ETC6300 delivers the same high level of control and precision typically found in larger industrial systems. This enables businesses to enhance the performance of their boiler operations while maintaining simplicity and ease of use.

As an innovative and cost-effective solution, the ETC6300 is engineered to provide comprehensive burner control for single-fuel applications. By integrating key functionalities such as burner management, safety monitoring, and performance optimisation into a single, compact unit, the ETC6300 simplifies system design, reduces wiring complexity, and improves overall reliability. This combination of features makes the ETC6300 ideal for installations where efficiency, operational safety, and cost-effectiveness are essential considerations.

The compact design of the ETC6300 allows it to be easily mounted directly within the burner enclosure, maximising space utilisation and simplifying installation. This versatility makes it suitable for both new installations and retrofits, providing flexibility in deployment. Additionally, the ETC6300 is compatible with the ETC Plant Master and the 6300 Bluetooth App, which offers engineers a comprehensive view of multi-boiler sites, enables users to monitor and analyse multiple boilers as one integrated system, streamlining the process of evaluating boiler performance, optimising load distribution, and ensuring efficient operation across the entire setup.

By combining advanced control features with ease of integration and a space-saving design, the ETC6300 Controller provides an ideal solution for businesses seeking to improve the performance, efficiency, and reliability of their burner systems. Whether in a small industrial setting or a larger commercial installation, the ETC6300 ensures that operations remain efficient, safe, and cost-effective, delivering long-term benefits in fuel savings and system performance.

For further information on the ETC6300 Burner Control System contact ETC today for bespoke solutions tailored to your needs.

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