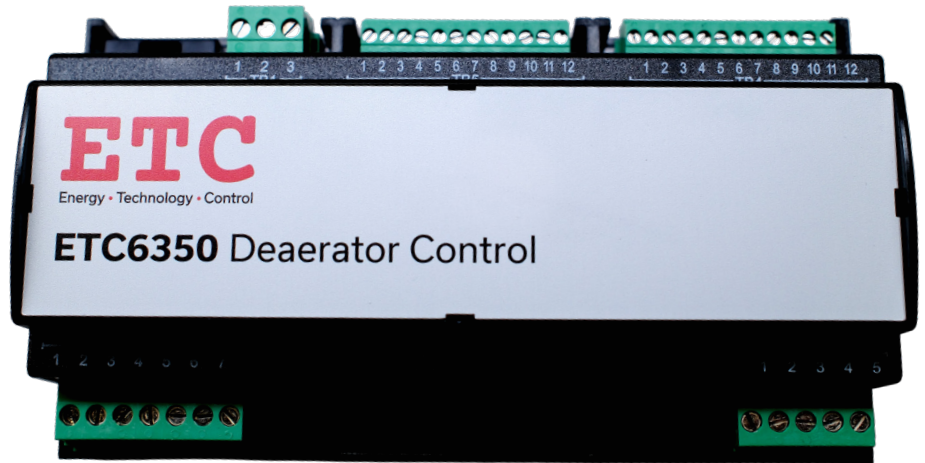




Energy • Technology • Control



ETC6350 Deaerator Controller

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The ETC6350 Deaerator Controller is a dedicated, high-performance solution for managing deaerator tank operation. It delivers precise monitoring and control of critical parameters to support efficient, reliable and long-lasting boiler plant performance.

Features:

- **Water level control:** Closed loop PID control maintains stable deaerator tank levels under varying load conditions.
- **Steam pressure control:** Accurate PID control of tank steam pressure ensures consistent deaeration performance.
- **Temperature monitoring:** Continuous monitoring of tank water temperature to confirm effective thermal performance.
- **Alarm protection:** Configurable high and low alarms for level, pressure and temperature provide early warning of abnormal conditions.
- **Overflow management:** Automated overflow valve control prevents overfilling and reduces water loss.
- **Pump control:** Supports up to two transfer pumps with automatic duty and standby changeover.
- **System integration:** Modbus RTU communication as standard for connection to wider plant systems.
- **Advanced connectivity:** Designed for use with the ETC6076 7" touchscreen HMI, supporting VNC, Modbus TCP and 4G communications.
- **Flexible deployment:** Can operate as a standalone controller or as part of a full burner or boiler control system.
- **Operator-friendly design:** Enables intuitive monitoring, control and diagnostics.

Benefits:

- **Reduced corrosion risk:** Removes the impact of dissolved gases that contribute to system damage.
- **Improved efficiency:** Maintains optimal conditions for effective deaeration and steam generation.
- **Extended equipment life:** Reduces wear on boilers, pipework and associated components.
- **Lower maintenance costs:** Minimises failures, leaks and unplanned repairs.
- **Enhanced reliability:** Continuous monitoring and alarm functions support stable operation.
- **Reduced downtime:** Automated pump management and system controls help prevent interruptions.
- **Improved system visibility:** Clear monitoring of key parameters supports better decision-making.
- **Flexible integration:** Easily connects into existing plant control architectures.
- **Consistent performance:** Precise control of level, pressure and temperature ensures stable operation.
- **Safe operation:** Built-in safeguards help maintain safe and controlled system conditions.

The ETC6350 Deaerator Controller provides advanced control of deaerator tank systems, ensuring efficient removal of dissolved gases and stable operation within steam generating boiler plants. Designed to support both standalone applications and integration into wider burner and boiler control systems, it delivers a reliable and flexible solution for modern industrial environments.

A deaerator tank plays a vital role in maintaining boiler system integrity by removing dissolved oxygen and carbon dioxide from feedwater. These gases are a major cause of corrosion, leading to issues such as rust formation, carbonic acid development, equipment failure and reduced efficiency. By ensuring effective deaeration, the ETC6350 helps protect critical components, extend system lifespan and maintain consistent operational performance.

Engineered for precision, the ETC6350 provides closed loop PID control of tank water levels, ensuring stable operation even under changing load conditions. High- and low-level alarms are continuously monitored, providing early warning of abnormal conditions and enabling timely intervention. In parallel, the controller maintains accurate PID control of steam pressure, with configurable alarm limits to safeguard both equipment and process stability.

Temperature monitoring is also a key function of the system, confirming that the correct conditions for effective deaeration are maintained. High and low temperature alarms provide clear indication of any deviation, supporting consistent thermal performance and efficient operation.

In addition to process control, the ETC6350 manages important mechanical functions within the deaerator system. Automated overflow valve control prevents overfilling and minimises water loss, while integrated transfer pump control supports up to two pumps with automatic duty and standby changeover. This improves operational resilience, balances pump usage and reduces the risk of unplanned downtime.

For seamless integration into wider plant infrastructure, the ETC6350 supports Modbus RTU communications as standard. When paired with the ETC6076 touchscreen HMI, the system also enables VNC, Modbus TCP and 4G connectivity, allowing both local operation and secure remote monitoring and diagnostics.

By combining precise control, robust monitoring and flexible integration, the ETC6350 Deaerator Controller provides an effective solution for maintaining safe, efficient and reliable boiler operation. It supports improved performance, reduced maintenance requirements and long-term system integrity, making it an essential component in modern steam plant environments.

For further information on the ETC6350 Deaerator Controller contact ETC today for bespoke solutions tailored to your needs.

Energy Technology & Control Ltd.

Caburn House • Brooks Road • Lewes • East Sussex • BN7 2BY • UK

+44 (0)1273 480667 • sales@energytechnologycontrol.com

energytechnologycontrol.com

