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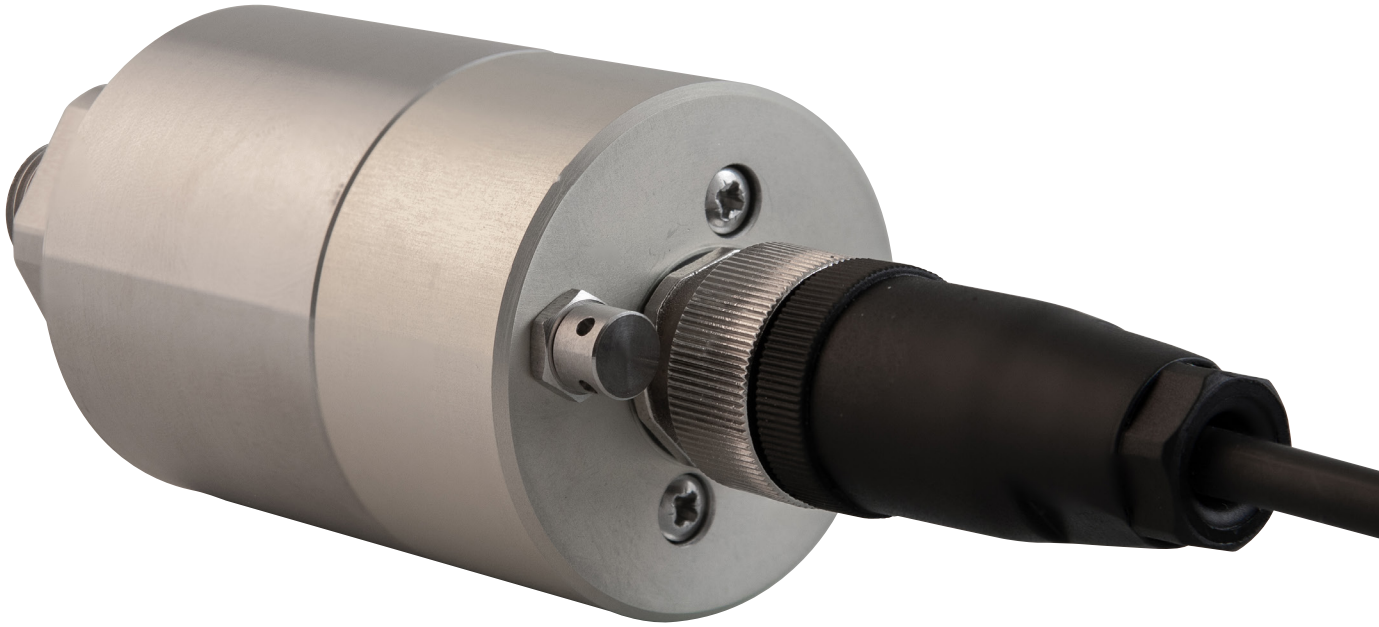

ETC6000 Series Burner Control System

ETC6043 Gas Pressure Sensor

The ETC6043 is a CANBus-enabled gas pressure sensor designed for ETC6000 series controllers. Measuring pressures from 0–600 mbar, it ensures accurate and reliable performance.

Features:

- **Precise Combustion Air Pressure Measurement:** Provides consistent and precise readings necessary for safe valve leak testing and burner control.
- **Standardised Connection:** Featuring a G¼ Male thread process connection, the ETC6043 offers easy installation and is compatible with existing infrastructure, reducing the need for additional components or modifications.
- **Compact Design:** Due to compact nature, fits well into various gas train configurations making it versatile and easy to install.
- **Approvals:** Certified as a component of ETC combustion control systems under GAR standards. CE-marked, demonstrating compliance with EN1854 safety and performance regulations.
- **Precision Monitoring:** Measures gas pressures from 0-600 mbar for safe and efficient operation of industrial burners.

Benefits:

- **Safety Enhancement:** By continuously monitoring gas pressure, the sensor plays a vital role in verifying safe combustion.
- **Seamless Integration:** Designed specifically for use with ETC6000 series burner controllers, the ETC6043 integrates effortlessly into existing systems, minimising setup complexity and ensuring compatibility with advanced burner control technology.
- **Enhanced System Customisation:** The ability to configure the sensor through the controller allows for customised sensor integration and ensures proper system calibration for specific burner set ups.
- **Reliable CANBus Communication:** The sensor uses a CANBus interface through an M12 interconnection system, offering stable, high-speed communication with the controller. This ensures real-time data transfer and reliable system performance.

The ETC6043 Pressure Sensor is a high performance gas pressure sensor engineered to work seamlessly with the ETC6000 series burner controllers. Serving as the CANBus-enabled successor to the popular ETC1021 model, it offers a precise measurement range of 0 – 600 mbar, making it ideal valve leak testing and reliable gas pressure monitoring. The ETC6043 is part of the versatile ETC604x family, which also includes the ETC6044, designed for gas trains and low pressure steam boilers with a range of 0 – 4 bar, and the ETC6045, optimised for high-pressure steam boilers with a range of 0 – 25 bar.

The ETC6043 is designed with durability and ease of use in mind. Its robust construction includes a sealed housing and a weatherproof vent, ensuring reliable operation in demanding industrial environments where exposure to dust, moisture, and temperature fluctuations is common. The G¼ Male thread process connection allows for easy installation and compatibility with a wide range of burner systems, minimising the need for special adapters or modifications.

The electrical connection uses the reliable M12 interconnection system, which facilitates simple and secure integration into burner control systems. This design supports high-speed, stable CANBus communication, enabling real-time pressure data transmission to the controller. By leveraging this advanced communication protocol, the ETC6043 ensures accurate, immediate data transfer, which is critical for maintaining optimal burner performance and safety.

The ETC6043 is designed for seamless integration with the ETC6000 series controllers. During installation, the sensor's serial number is assigned through the controller settings. Additional configurations allow for a tailored setup to meet the specific requirements of the burner system.

In the event of a sensor replacement, the existing configuration can be reset, and the new sensor's details integrated smoothly into the system, ensuring minimal downtime and consistent performance.

The ETC6043 significantly enhances burner operation by providing accurate, continuous gas pressure monitoring. This capability not only optimises combustion efficiency but also ensures that the burner operates within safe parameters, reducing the risk of incomplete combustion, overpressure, or other potentially hazardous conditions.

Additionally, the CANBus interface simplifies system diagnostics by continuously feeding accurate pressure data to the controller, allowing operators to quickly identify and address potential issues. This functionality is particularly valuable in complex burner configurations, where maintaining precise control over combustion parameters is critical for safety and performance.

The ETC6043, along with other models in the ETC604x range, is CE-approved and complies with the stringent safety standards outlined in EN1854, making it a trusted component in burner control systems worldwide. Its advanced monitoring capabilities and robust construction make it well-suited for a variety of applications, including industrial boilers, gas trains, and combustion systems requiring strict safety and efficiency standards.

The ETC6043 Pressure Sensor represents a key advancement in burner control technology, offering a reliable, high-performance solution for gas pressure monitoring. Its seamless integration with the ETC6000 series controllers, combined with its robust design and advanced communication capabilities, makes it an indispensable tool for modern combustion systems. Whether installed in new systems or retrofitted to existing setups, the ETC6043 ensures enhanced safety, operational efficiency, and long-term reliability, contributing to reduced downtime, lower maintenance costs, and greater overall system performance.

For further information on the ETC6043 Gas Pressure Sensor contact ETC today for bespoke solutions tailored to your needs.

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