ETC
Energy • Technology • Control

# ETC6087 Combustion Air Pressure Sensor

**The ETC6087 CANBus sensor measures combustion air pressure in the wind box, enhancing burner safety by verifying safe combustion levels when fan speed control is used.**

## Features

- **Precise Combustion Air Pressure Measurement:** Accurately measures the combustion air pressure in the wind box, providing critical data for burner operation and safety.
- **Durable Design:** The sensor is built to withstand harsh environments, with a sealed housing (IP 54), and a weatherproof vent to protect against dust, moisture and other environmental factors, ensuring long-term reliability and minimal maintenance.
- **Standardized Connection:** Featuring a G1/4 Male thread process connection, the ETC6087 offers easy installation and is compatible with existing infrastructure, reducing the need for additional components or modifications.
- **Optimized Performance Monitoring:** The accurate pressure readings provided by the ETC6087 enable precise monitoring of burner performance.
- **Two measurement configurations:** The ETC6087 is suitable for 'gauge' and 'differential' measurement, enhancing it's capability as a sensor.

## Benefits

- **Safety Enhancement:** By continuously monitoring combustion air pressure, the sensor plays a vital role in verifying safe combustion, especially when fan speed control is integrated into the burner configuration. This improves overall burner safety and performance, reducing the risk of unsafe operation.
- **Seamless Integration:** Designed specifically for use with ETC6000 series burner controllers, the ETC6087 integrates effortlessly into existing systems, minimizing setup complexity and ensuring compatibility with advanced burner control technology.
- **Enhanced System Customization:** The ability to configure the sensor through the controller allows for customized 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.

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**The ETC6087 Combustion Air Pressure Sensor is a cutting-edge, fail safe CANBus device, specifically engineered for seamless integration with the ETC6000 series burner controllers. Designed to provide precise and consistent measurement of combustion air pressure in the wind box, the ETC6087 plays a pivotal role in ensuring safe, efficient, and optimized burner operation. Accurate air pressure measurement is vital for verifying safe combustion, particularly in systems where fan speed control is used, as it ensures the burner is operating within ideal parameters.**

The sensor's advanced functionality enables it to store the combustion air pressure data within the burner's profile, ensuring that burner conditions are continually monitored and maintained. This data is critical for assessing and adjusting the system to safeguard against potential safety risks, such as incomplete combustion or imbalanced burner operation, both of which can lead to inefficiency or damage. By incorporating this level of monitoring, the ETC6087 helps to reduce the risk of system failure and ensures optimal safety, performance, and longevity of the burner system.

Installation and Integration with the ETC6087 is straightforward, with the sensor featuring a G1⁄4 Male thread process connection. This standardized connection ensures compatibility with a broad range of burner systems and allows for easy integration without the need for additional adapters or modifications. Whether incorporating the sensor into new installations or retrofitting it to existing systems, the ETC6087 offers a simple yet highly effective solution for upgrading burner control systems with combustion air pressure monitoring capabilities. The threaded connection, alongside the sensor's sealed construction and weatherproof vent, ensures long-term durability, even in harsh industrial environments where exposure to moisture, dust, and other challenging conditions is common.

The sensor uses the M12 interconnection system for electrical connections, enabling high-quality, stable communication with the ETC6000 series burner controllers through the CANBus. The M12 connector provides a secure and easy-to-use interface for rapid installation.

The communication system is optimized for high-speed, real time monitoring, ensuring that combustion air pressure data is accurately relayed to the burner control system for immediate processing.

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.

Beyond its ease of integration, the ETC6087 provides significant operational benefits, particularly in optimizing burner performance and improving energy efficiency.

By continuously monitoring combustion air pressure, the sensor enables more accurate control over combustion conditions, ensuring the burner operates at peak efficiency.

Optimized combustion not only leads to lower fuel consumption but also helps reduce emissions, contributing to more sustainable burner operation.

Furthermore, maintaining accurate combustion air pressure readings helps prevent burner malfunctions, which can otherwise lead to costly repairs and downtime.

With its advanced features, user-friendly integration, and proven reliability, the ETC6087 is a vital tool for any industrial burner system. It ensures that burners operate within safe and optimal conditions, providing a high level of confidence for operators and contributing to the smooth, efficient operation of the entire system. The ETC6087 is not just a sensor, but an essential part of ensuring that combustion remains safe, efficient, and reliable over the long term.

If you need further information, a quote or advice for a project, contact us:

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