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ETC6000 Series Burner Control System

ETC6044 Pressure Sensor

The ETC6044 is a compact, high-accuracy pressure sensor designed for use with the ETC6000 series burner management systems. It monitors low-pressure conditions up to 4 bar, enabling precise burner control and fault detection across a wide range of combustion systems.

Features:

- **0–4 Bar Operating Range:** Ideal for combustion air, gas, or water pressure monitoring.
- **CANBus Interface (24 VAC):** Provides seamless digital communication with ETC controllers.
- **Rugged Sensor Body:** Pressure-rated to 12 bar burst strength.
- **M12 5-pin Connection:** Quick-connect setup for installation or replacement.
- **IP54 Protection:** Suitable for indoor mechanical plant environments.
- **Compact Dimensions:** 44 mm diameter x 85 mm length for tight installations.

Benefits:

- **Stable Burner Operation:** Enables fine pressure-based control and modulation.
- **Improved Safety:** Detects low-pressure or blocked line conditions rapidly.
- **Minimal Downtime:** Quick installation with durable threaded port design.
- **Versatile Mounting:** G ¼" thread suitable for standard process connections.
- **Cost-Effective Compliance:** Conforms to EN1854:2010 with $\pm 0.6\%$ accuracy.
- **Integrated Design:** Fully compatible with ETC6000 controller pressure inputs.

The ETC6044 is a robust, digitally connected pressure sensor used for monitoring low- to moderate-pressure levels in burner management systems. Designed to integrate directly with the ETC6000 series via CANBus, it is commonly used to monitor combustion air, water, or gas line pressure in heating and process applications. The sensor has a working range of 0 to 4 bar and features high burst protection up to 12 bar, making it well suited to the safety demands of industrial burner systems.

Its compact cylindrical housing includes an M12 5-pin connector for rapid electrical installation and a G ¼" process connection that fits most pipework setups. Once installed, it delivers a continuous, high-accuracy pressure reading to the ETC6000 controller. That data is used in real-time to enable modulation, detect faults, and trigger lockouts if pressure drops below safe thresholds.

The ETC6044 supports automatic safety routines within the burner sequence—such as verifying pressure prior to ignition and shutting down the burner in the event of unexpected losses during operation. Designed with maintenance in mind, the sensor can be quickly removed and replaced without major system interruption. Its internal electronics are housed in an IP54-rated enclosure, making it appropriate for typical plantroom environments.

For further information on the ETC6044 Pressure Sensor for the 6000 Series contact ETC today for bespoke solutions tailored to your needs.

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