ETC
Energy • Technology • Control

ETC6086 Ambient Air Temperature Sensor

The ETC6086 monitors the ambient air temperature around combustion or plant-room equipment. Feeding directly into the ETC6000 controller, it supports environmental compensation for burner control, aiding safety, compliance, and thermal stability.

Features

- **0–60°C Sensing Range:** Ideal for ambient monitoring in mechanical rooms.
- **CANBus (24 VAC):** Provides direct digital interface to ETC systems.
- **Compact Size:** Just 63 x 58 x 36 mm for space- conscious installations.
- **IP65 Enclosure:** Fully sealed for dusty or moist conditions.
- **Wall-Mountable:** Simple external sensor mounting.
- **±2°C Accuracy:** Suitable for general combustion system use.

Benefits

- **Improves Combustion Accuracy:** Enables temperature- compensated control.
- **Supports Safety Logic:** Triggers limits or alarms based on air temperature.
- **Low Power Draw:** Uses only 0.1 VA, ideal for CANBus loads.
- **Fast Installation:** No complex mounting or calibration required.
- **Reliable in Harsh Conditions:** IP65 rating ensures performance in plant-rooms.
- **Compact and Cost-Effective:** A low-impact addition to any control setup.

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The ETC6086 is a small, robust ambient temperature sensor that plays a supporting role in the ETC6000 burner management ecosystem. It is designed to measure the air temperature in boiler rooms, enclosures, or around combustion equipment, providing valuable data that can be used for temperature compensation, ventilation control, or system diagnostics.

Its compact and lightweight housing is IP65-rated, allowing it to be installed in demanding plant environments without risk of dust or moisture ingress. With a sensing range from 0 to 60°C and a ±2°C accuracy, it provides sufficient resolution for most ambient monitoring needs in combustion systems.

This sensor connects to the ETC6000 via CANBus and transmits its readings in real time. The controller can then use this input to adjust combustion parameters—such as fan speed, fuel-air ratio, or trim settings—or to initiate a shutdown if ambient conditions exceed safe limits. It plays a vital role in systems where air temperature has a measurable effect on combustion performance or equipment reliability.

Thanks to its compact form and standardized wiring, the ETC6086 is easy to fit into both new builds and retrofits, adding an extra layer of intelligence to ETC-controlled burner systems without increasing system complexity.

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

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