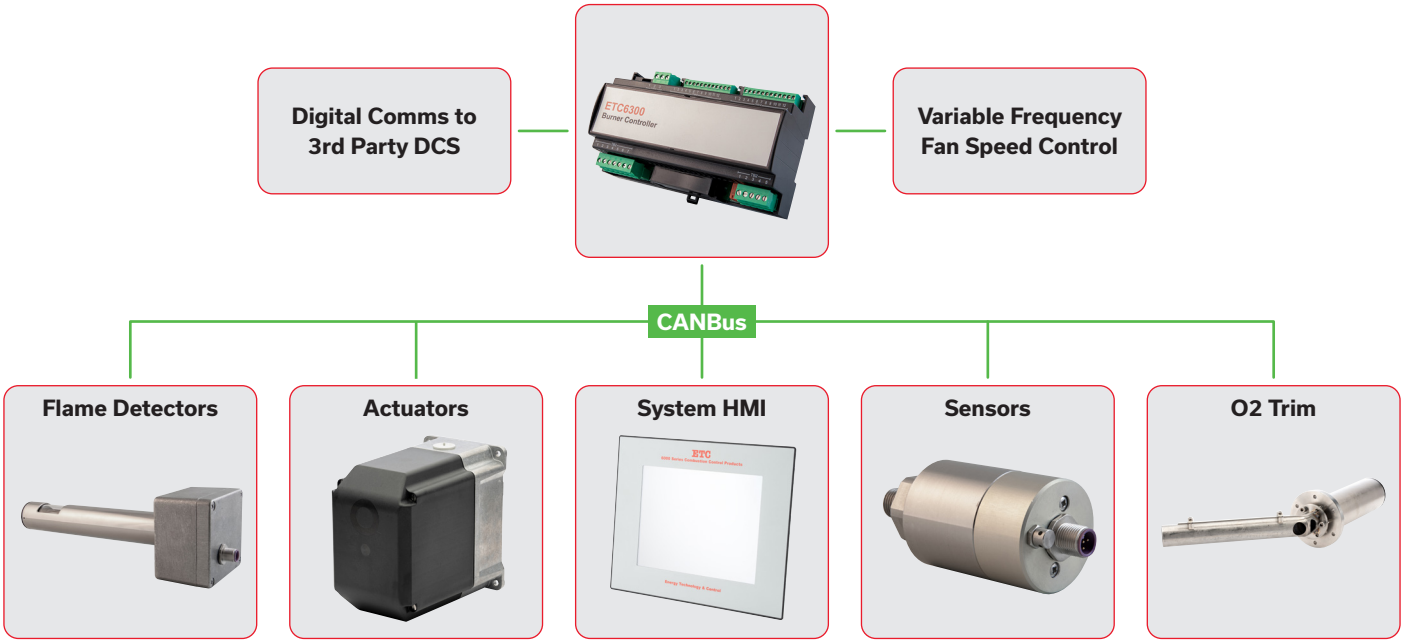
ETC

Energy • Technology • Control



ETC6000 Series Product Range

ETC6000 Product Range

The ETC6000 product range offers flexible solutions for industrial burners, supporting steam boilers, hot water boilers, oil heaters, process dryers, and single or dual fuel burners, including twin-fired boilers.

Features:

- Fuel savings up to 10% over conventional mechanical linkage based systems.
- Achieves cost savings through improved boiler efficiency and environmental benefits from reduced emissions.
- Integrated or Electronic Ratio Control (Fuel:Air Ratio) models.
- Improved Turndown reduces burner cycles for better boiler efficiency.
- Oxygen and CO trim options.
- Setback option allows lower setpoint during low periods of demand.
- Flexibility to address most burner applications.
- Suitable for use with single and dual fuel burners as well as with twin fired boilers.
- Reduced boiler maintenance.
- Prolonged boiler life.
- Choice of user interfaces, including a dedicated 10.4" touchscreen.
- Interfacing to Building Management Systems and other third party systems using communications protocols such as Modbus and Profibus.
- Range of ancillary devices including servo motors, and self checking boiler temperature & pressure sensors.
- Water Level and Total Dissolvable Solids control.
- Worldwide standards approvals.

ETC's 6000 Series offers high-performance, safe, and flexible controllers for diverse industrial applications, integrating seamlessly with various burner and boiler systems to optimise combustion, save energy, reduce emissions, and ensure reliability. The range includes:

Controllers

6000
Designed to manage modulating, dual fuel (gas and oil) burners as single fuel profiles or mixed profiles. There are options of fan and/or pump speed control via variable frequency drive (VFD), and oxygen trim, which further improve burner efficiency.

6002
Configured to manage dual fuel burners that fully modulate on gas and stage fire for oil (2, 3, 4 or 5 stage) referenced to a modulating air damper. There are options of fan speed control via variable frequency drive (VFD), and oxygen trim, which further improve burner efficiency.

6003
An integrated controller for modulating dual gas burners, supporting both single and mixed waste fuel profiles. Features include valve leak testing for two gas trains and optional fan speed control via variable frequency drive (VFD) and oxygen trim for enhanced burner efficiency.

6008
Configured for blending firing mixed fuel profiles to bias the use of one fuel rather than the other depending upon fuel availability. The blending function is controlled by a signal from external systems.

6008
Configured for blending firing mixed of gas profiles to bias the use of one gas rather than the other depending upon availability. The blending function is controlled by signals from external systems.

6100
Electronic Ratio Controller designed to optimise combustion control across various burner configurations, from single-point systems to more complex multi-element setups. Compatible with a wide range of burner control boxes.

6300
An ideal solution for single fuel burners focusing on the simplicity of use and design but customisable to suit the majority of single fuel burner applications.

Human Machine Interface Options
OLED Screens:

6066 and 6067: High-contrast displays for real-time monitoring and configuration in low-light environments.

Touch Screens

6075 and 6076: Intuitive touch interfaces (7"and 10.4") for easy navigation and system control, perfect for on-site operators needing clear visual feedback.

Actuators (Servos)

6026: 4Nm for small-scale applications.

6027: 10Nm for mid-range applications, available in IP54 and IP65 models.

6028/6023: 20Nm for larger installations, also in IP54/IP65 and EX (explosion-proof) versions.

6024: 40Nm for larger installations, also in IP54/IP65 and EX (explosion-proof) versions.

Higher torque motors available on request

Flame Detectors

6094/6095: Radial and axial self-checking UV flame detectors

Sensor Options

Temperature Sensors

1040: Measures 0-100°C, ideal for standard applications.

1044: Measures 0-400°C, suitable for high-temperature industrial processes.

Pressure Sensors

6043: Gas pressure, 0-600 mbar, ensuring optimal combustion conditions.

6044: Universal pressure, 0-4 bar, adaptable for various pressure monitoring needs.

6045: Steam pressure, 0-25 bar, for precision in steam applications.

O2 Trim

6083: By monitoring the oxygen level in the exhaust gas flue, fine adjustments can be applied to the air fuel ratio to compensate for combustion variables such as barometric pressure change, air humidity, variances in fuel quality etc. This continual compensation reduces inefficiencies.

For further information on the ETC6000 product range contact ETC at the address below:

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