

ETC6000 Series Burner Management System

ETC6008/ETC6009 Waste & Biofuel Combustion Management Controls



ETC has added two new models to the established ETC6000 Series Burner Management System range of combustion controls. The ETC6008 & ETC6009 are designed to address applications where bio and waste fuels are being used.

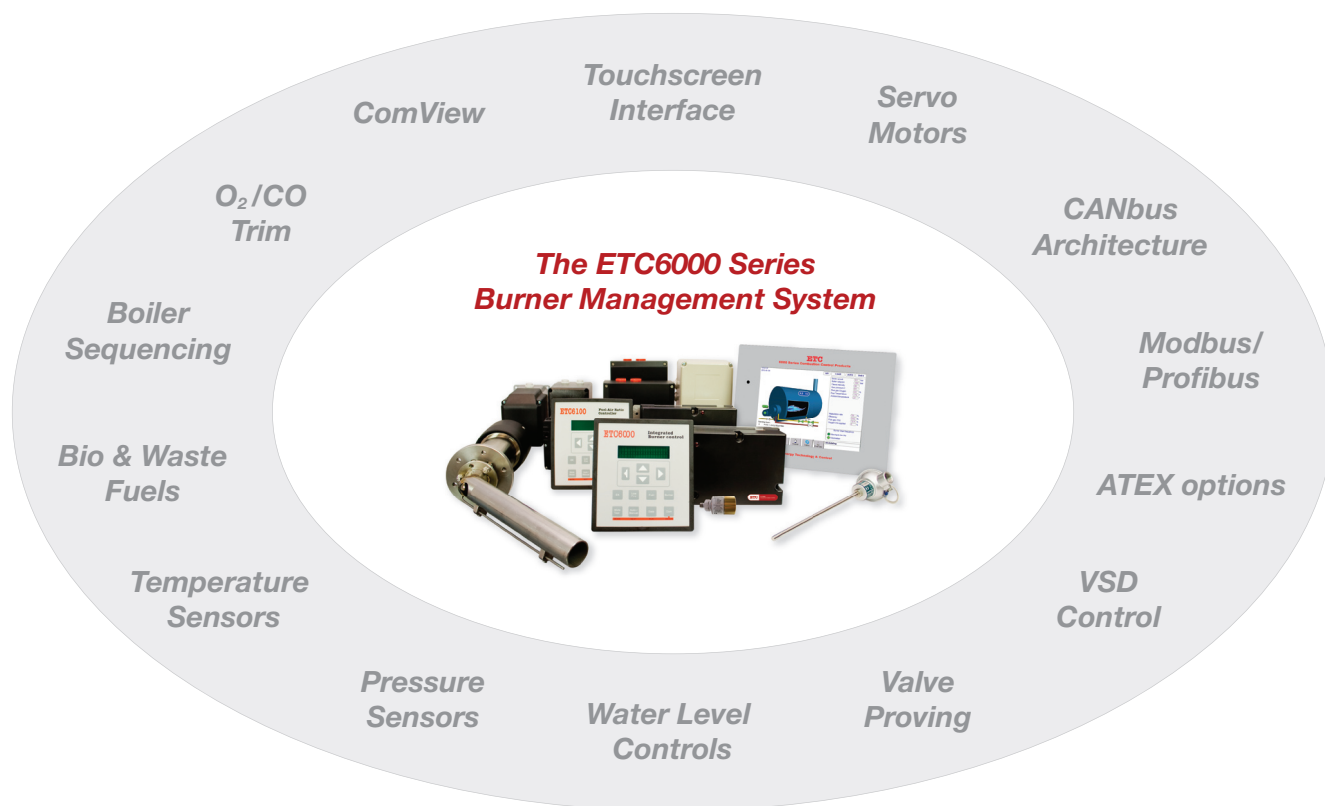
Bio and waste fuels are characterised by variable availability and inconsistent calorific values. In some cases these fuels can be burnt on their own but in many cases require a base fuel to be fired simultaneously. The ETC6008 & ETC6009 allow bio/waste fuels to be fired together with a base fuel; an external 4-20mA is used to indicate the proportion of bio/waste fuel that is available for use across the firing range. This enables the operator to ensure the optimum bio/waste fuel is used at all times. An internal software algorithm controls the mix of fuels and air to ensure combustion is optimised whilst maintaining safe combustion. Oxygen trim is an integral element of ETC6008 & ETC6009 systems. Two ETC zirconia in-situ oxygen probes ensure that combustion variables are continuously monitored and adjusted such that variations in fuel calorific values or external environmental conditions do not compromise combustion efficiency or safety.

The ETC6008 is designed for gaseous and liquid fuels to be fired independently or simultaneously. The ETC6009 allows a gaseous base fuel to be mixed with a gaseous bio or waste fuel. Both models allow for valve proving on two separate gas trains using either ETC's dedicated gas pressure sensors or third party pressure switches, as well as the provision for a liquid backup fuel to be fired using an expansion module.

Should bio or waste fuels be suitable for firing independently then a single fuel profile can be commissioned in the normal way. Up to four fuel profiles are available on all ETC6000 Series Burner Management Systems giving operators flexibility in operation.

ETC's full range of peripherals including a 10.4" touchscreen, CANbus servo motors and temperature and pressure sensors are all fully compatible with the new models.

ETC6000 Series Burner Management System



Benefits include:

- Fuel savings of up to 10% over conventional mechanical linkage based systems
- Flame safeguard and Fuel Air Ratio Controller all-in-one
- Associated cost savings & CO₂ emissions reductions
- Improved turndown
- Oxygen and CO trim options
- Setback option allows lower setpoints during low periods of demand
- Flexibility to address most burner applications
- Conventional & biofuel/waste fuel firing
- Reduced boiler maintenance
- Prolonged boiler life
- Interfacing to Building Management Systems and other third party systems using communication protocols such as Modbus & Profibus.
- A range of ancillary devices including CANbus servo motors and self checking boiler temperature & pressure sensors

To discuss the suitability of ETC products for your processes, contact us at the address below.

Energy Technology & Control Ltd.

25 North Street, Lewes, East Sussex, BN7 2PE, UK

T: +44 (0)1273 48066 7

F: +44 (0)1273 48065 2

E-mail: sales@energytechnologycontrol.com