

Analyzers for your Bio Refinery Applications

Pilot Plant to Commercial Scale Operation

Applications include:

- Waste-to-Energy Plants
- Combined Heat and Power
- Haz-Mat destruction
- Thermal Conversion Technologies
- Starved-Air Gasifiers
- Plasma Gasifiers
- Coal Gasification
- Bio-Char
- Torrefaction
- MSW to Liquid Fuels
- Co-Firing Biomass
- Landfill Gas
- Boilers, Turbines, Engines
- Process/Combustion Control
- Technology Verification
- EPA Compliance



PRODUCT DESCRIPTIONS

Tyco **BioCEM-S** and **MultiGAS** Analyzer Systems are accurate, repeatable and engineered for specific applications and selective measurements.

- **All Weather NEMA 4X Box Construction**
Designed for Outdoor monitoring. -30 to 50 C ambient temperature. **Shelter not required**
- **Up to (8) channel Measurement Capability**
- **Proven High-Accuracy Detectors Utilize:**
 - Paramagnetic O₂
 - NDIR CO, NO, NO₂, N₂O, NH₃, CH₄, CO₂, SO₂, HCl
 - TC H₂
 - Chemiluminescent NO_x

Flexible Installation Options

- Mount at Gas Port. Minimize Heated Sample Lines.
- Mount at Grade. Maximize accessibility
- Thermal Extractive/Hot Wet or Cold Dry Systems available
- Process temperatures to 2900 F
- Digital Mass Flow Control for precise sample gas flow

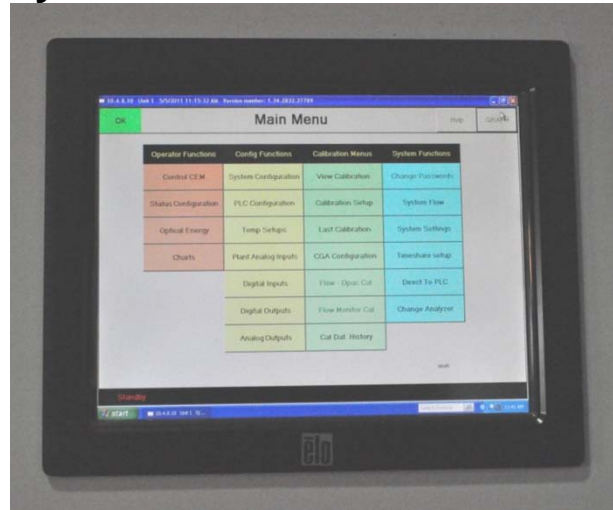


Other Analyzer Products include:



ZKA – Insitu Gasification/Combustion control for O₂, Combustibles & Temperature measurements
Opal 200 Series - Opacity, Particulate/Dust Monitors
Opal 300 - DP Stack Gas Flow/Velocity Meters
Goyen BLD - Tribo Electric Dust Sensors for Bag House Monitoring and MACT regulations

Onboard Data Acquisition System



Optional Touch Screen calculates, displays and stores emission data, sets alarm flags for upset conditions, and stores calibration information and associated process/plant parameters for up to 3 years. Optional hardware and software configurations are available for compliance with USEPA 40 CFR Parts 60, 63 and 75.

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