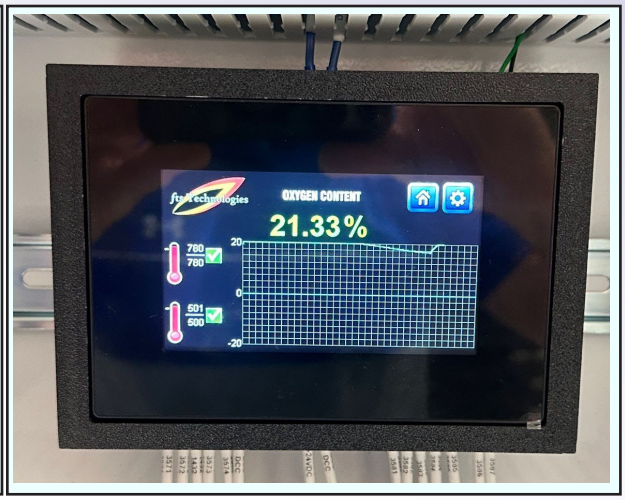
AN-01: GAS OXYGEN ANALYZER

The FTS Technologies Gas Analyzer is a specialized tool crafted to empower users of flame treatment with the ability to optimize air/gas ratios. This cutting-edge analyzer from FTS Technologies measures both oxidative (air-rich) and reductive (gas-rich) flame mixtures, granting users unparalleled capabilities in monitoring and controlling air/fuel gas mixtures.



Gas Analyzer

Standard product configuration is a Primary Control Board with an integrated 4.2" Color Touch HMI, DIN mounted. The PCB is remotely mounted to an analyzer cell. The analyzer cell comprises of a flow meter, the heated and controlled catalyst (for post hydrocarbon combustion analysis) and the lambda gas oxygen sensor.

Key Benefits:

Cost Efficiency: Prevents excessive fuel consumption, minimizing wasteful costs.

Process Consistency: Enables accurate control of air/fuel gas processes (flame treatment or deflashing), ensuring consistent and reliable combustion processes.

Customized Operation: Five available digital inputs and five digital outputs. Configurations with and without the HMI. Product can be supplied to meet your specific operational needs.

Optional Customer Applications:

Integrated Control Device: Seamlessly integrates with flame surface treatment units for streamlined control.

Plug-In Calibration Tool: Offers calibration support for existing flame treatment units equipped only with flow meter control. Plug-In tool for the calibration of deflashing units to provide optimal flame efficiency.

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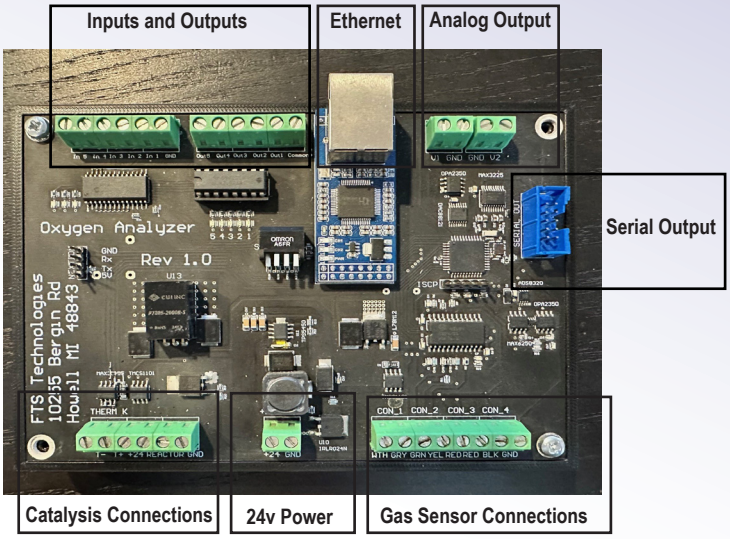
Gas Analyzer

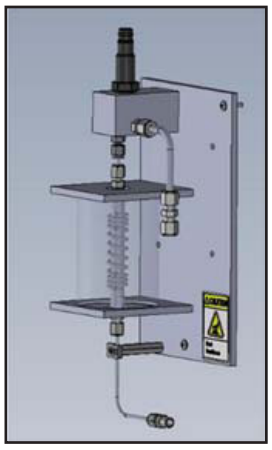
Primary Control Board: The AN-02 Gas Oxygen Analyzer is expertly designed to provide users with maximum flexibility. Three forms of data output (Ethernet, Analog and Serial) as well as five digital inputs and five digital outputs, allow for unmatched integration to new or existing products and processes.



Sensor: The wide band lambda LSU 4.9 sensor is a planar ZrO2 dual cell limiting current sensor with integrated heater. Highly accurate and stable readings with a speed of response of less than four seconds at optimal sample flow.

Analyzer Cell: Remotely mounted from the PCB, the analyzer cell can be used with our without the cataysis depending on the sample gas being analyzed.

Wide Band Lambda Sensor



Analyzer Cell with Catalysis

Data Outputs:

1. Analog, 4 to 20mA; 0 to 5 volts
2. Serial, RS232 interface, 9600 baud, ASCII protocal
3. Ethernet

Power Requirements: 24V +/- 10%, 24W

Dimensions:

PCB Overall: 6.5" (L), 4.5" (W), 3.5" (D)
Analyzer Cell: 10" (L), 6" (W), 4.125" (D)

Catalysis:

Platinum Catalysis
Pre Packed in a 4.5" SS Tube

Sample Flow Rate:

0.25 - 0.65 ml/min Air/Fuel Gas

Response Time:

> 2 Seconds, Constant Monitoring

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