

OXYGEN | H₂S | MOISTURE

ADVANCED ANALYZERS FOR BIOGAS

COMPLETE SOLUTION FOR BIOGAS UPGRADING

AMI offers a full-line of advanced Gas Analyzers for monitoring oxygen, hydrogen sulfide and moisture levels in Biogas. We can provide both fixed and portable Analyzers capable of reading trace and percent levels of the target gas. Our range of maintenance-free accessories are available to help extend the operational life of your Analyzer.

HIGH-PERFORMANCE, COST EFFECTIVE, & EASY TO USE

AMI's patented designs and proprietary technologies give customers unsurpassed performance, reliability and accuracy. Our Biogas Analyzers are packed with highly desirable features that provide operators with ultimate flexibility in monitoring their gas conditions while minimizing the Analyzer costs. Simple, intuitive controls mean operations and maintenance staff can monitor and service any AMI Gas Analyzer with minimal training.

BEST-IN-CLASS SERVICE & SUPPORT

AMI Biogas analyzers typically ship quickly from stock held in our ISO 9001:2015-certified US factory. The AMI team is ready to provide advice for product selection unique to your application and offer after-sales support. Additionally, our global network of representatives and distributors are available to service all your Biogas Analyzers needs.

HIGH PERFORMANCE BIOGAS ANALYZERS

BXSeries AMI's BX Series is our most advanced offering of High-Performance Analyzers. They combine patented

technologies with reliable and easy-to-use, intuitive features and are the preferred choice among engineers and measurement technicians.

OXYGEN (O₂)



MODEL 2010B

TRACE OXYGEN 10 Output Ranges PPM and % Level

AMI's best selling Analyzer for detecting trace levels of oxygen in Biogas. Fast, accurate measurements down to 0.05 ppm.



4 Output Ranges Ranges between 0-25%

Designed for detecting percent lev of oxygen in Biogas streams down to 0.01%.





MODEL 1000RS

PORTABLE TRACE OXYGEN 10 Output Ranges PPM and % Level

Ultra-portable O₂ Analyzer for spot-checking pipelines. Patented 4-way Selector Valve (Sample/Purge/On/Off) allows for rapid come down time between measurements.

HYDROGEN SULFIDE (H₂S)



MODEL 3010B

TRACE H_aS

4 Output Ranges: 0-200 ppm Optional Ranges: 0-2000 ppm

Compact, low-cost design for continuous measuring trace levels of H₂S in Biogas.



MODEL 3000RS

PORTABLE TRACE H_aS 4 Output Ranges: 0-200 ppm Optional Ranges: 0-2000 ppm

Spot-checking and fast verification of H₂S monitors. High accuracy (± 1%) compared to sample tubes (± 10 to 15%).

MOISTURE (H₂0)



BARRACUDA MODEL 4010L

Tunable Diode Laser (TDL) TRACE MOISTURE RANGE: 0.0 - 20.0 lbs (0.0 - 420ppm) H₂O

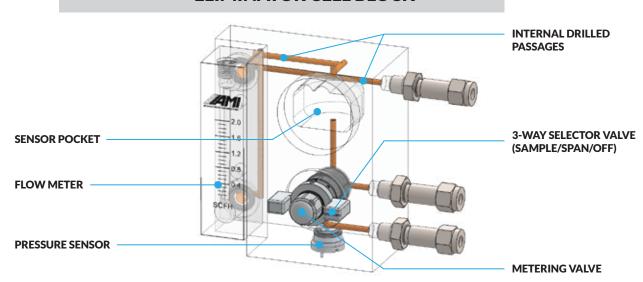
Most advanced TDL Moisture Analyzer in the Industry. Patented design makes the MODEL 4010LX highly reliable, very compact and extremely cost-effective. The MODEL 4010LX is packed with desirable features while being a fraction of the cost of other TDL Analyzers.

KEY FEATURES

- Advanced TDL technology makes moisture measurements possible with some of the most difficult biogas samples
- Industry's shortest gas path to the measurement cell means fast, accurate moisture readings
- Analyzer Guardian Technology provides protection against water slugs
- Low power requirements allow for AC, DC and remote solar installations
- Robust design eliminates expensive factory service

PATENTED DESIGNS & KEY TECHNOLOGIES

ELIMINATOR CELL BLOCK ™



Our patented **ELIMINATOR CELL BLOCK**TM provides a unique sample system approach that virtually eliminates all potential leak paths while optimizing flow efficiencies. The sample system & flow efficient sensor pocket are machined directly into a solid metallic block and interconnected with small diameter, precision-drilled, intersecting gas passages. Finally, we integrate our specially engineered 3-way Selector Valve, a metering valve, pressure sensor and flow meter directly into the machined block. This approach eliminates long lengths of leak-prone tubing, delivers up to a 400% faster measurement response time, and provides front panel access to the sensor while minimizing overall Analyzer size.

PROPRIETARY SENSOR TECHNOLOGY

AMI uses proprietary manufacturing techniques to produce its exclusive electrochemical oxygen sensors. The patented designs produce a sensor that yields an extremely quick response, high reliability and longer product life. AMI's oxygen sensors provide an industry-leading resistance to $\rm H_2S$, in concentrations up to 500 ppm. This eliminates the need for a maintenance-intensive $\rm H_2S$ scrubber for the biogas sample. AMI also puts 100% of our sensors through a battery of performance tests across multiple temperature ranges to insure they meet our strict quality standards.

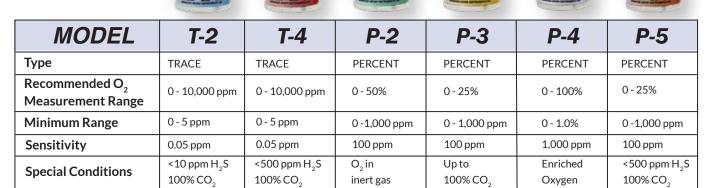


COMMAND CENTER SOFTWARE



AMI's powerful COMMAND CENTER User Interface communicates with all AMI Gas Analyzers. It provides technicians with access to advanced features for configuring and troubleshooting the Analyzer. Users can program alarms to be fail safe or non-fail safe, latching or non-latching, and set as independent alarm delays. They can also access the automatic data logging files, available on all fixed and portable Analyzers. The data logs provide time-stamped records of gas measurement, gas pressure, analyzer temperature and power outage events that can assist with solving intermittent problems.

OXYGEN SENSORS



NOTES

Any sensor can be used in O_2 applications above its recommended operating ranges, however, it may shorten the sensor's lifespan. The minimum range of the sensor is dependent on the sensor as well as the AMI Analyzer it is used within.

Sensitivity is the minimum change in O_2 in the gas stream that will be detected by the sensor.

Notify the factory for use in CO₂ background gas above 50%. The AMI O2 Analyzer will require additional programming.

H₂S SENSORS



Sensor Type	Low Range	High Range
Measurement Range	0 - 200 ppm	0 - 2000 ppm
Minimum Range	0 - 10 ppm	0 - 100 ppm
Sensitivity	0.1 ppm	0.1 ppm

ACCESSORIES

PRE-CONDITIONING

AMI's pre-conditioning accessories provide protection from impurities in the Biogas stream that can damage an Analyzer. Vertically-mounted Demisters reduce saturated gas temperature and condense out liquids. The Analyzer Guardian's unique membrane allows biogas flow while preventing liquids from passing through.



PROTECTION

For applications in extreme cold weather down to -40°F or harsh environmental conditions.



ENCLOSURE



PROTECTIVE CARRY CASE

SAMPLE PUMPS

Sample pumps draw sample in ambient pressure applications or pressure down to -7 psig. Designed to meet Class I, Div 2, Groups C

& D requirements.



FIXED SAMPLE PUMP

PORTABLE SAMPLE PUMP



- 714.848.5533
- www.amio2.com

