



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

BX Series 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 X

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.



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.

MODEL 210B X

PERCENT OXYGEN
4 Output Ranges
Ranges between 0-25%

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



HYDROGEN SULFIDE (H₂S)



MODEL 3010B X

TRACE H₂S
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 H₂S
4 Output Ranges: 0-200 ppm
Optional Ranges: 0-2000 ppm

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

MOISTURE (H₂O)



BARRACUDA MODEL 4010BR

Tunable Diode Laser (TDL)
TRACE MOISTURE
RANGE: 0.25 - 20.0 lbs
(5.25 - 420ppm) H₂O

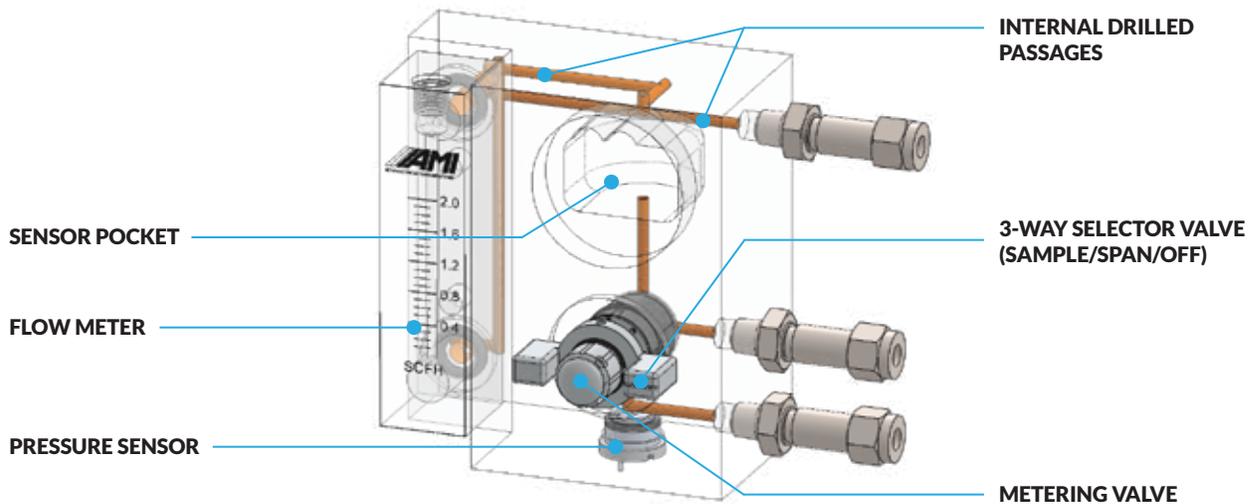
Most advanced TDL Moisture Analyzer in the Industry. Patented design makes the **MODEL 4010BR** highly reliable, very compact and extremely cost-effective. The **MODEL 4010BR** is packed with desirable features while being a fraction of the cost of other TDL Analyzers.

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
- ▶ Low power requirements allow for AC, DC and remote solar installations
- ▶ Robust design eliminates expensive factory service

PATENTED DESIGNS & KEY TECHNOLOGIES

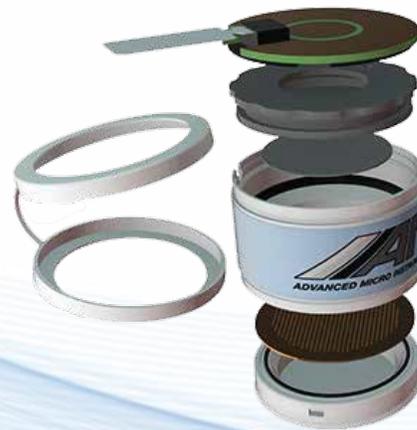
ELIMINATOR CELL BLOCK™



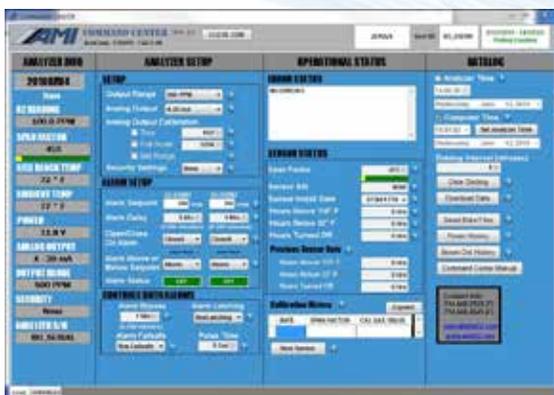
Our patented **ELIMINATOR CELL BLOCK™** provides a unique sample system approach that virtually eliminates all potential leak paths while optimizing flow efficiencies. The sample system & flow efficient sensor pocket are machined directly into a solid metallic block and interconnected with small diameter, 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 H_2S , in concentrations up to 500 ppm. This eliminates the need for a maintenance-intensive 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



	T-2	T-4	P-2	P-3	P-4	P-5
Max Range	0 - 10,000 ppm	0 - 10,000 ppm	0 - 50%	0 - 25%	0 - 100%	0 - 25%
Min Range	0 - 5 ppm	0 - 5 ppm	0 - 1,000 ppm	0 - 1,000 ppm	0 - 1.0%	0 - 1,000 ppm
Min Detection	0.05 ppm	0.05 ppm	10 ppm	100 ppm	1,000 ppm	100 ppm
Special Conditions	<10 ppm H ₂ S 100% CO ₂	<500 ppm H ₂ S 100% CO ₂	O ₂ in inert gas	Up to 100% CO ₂	Enriched Oxygen	<500 ppm H ₂ S 100% CO ₂

AMI uses proprietary manufacturing techniques to produce its patented electrochemical oxygen sensors. Every sensor manufactured in our Costa Mesa, CA facility undergoes a battery of performance tests, including response times, noise, drift and linearity across multiple temperature ranges, to insure they meet our strict quality standards.

Note: For high CO₂ background gas, the O₂ Analyzer must include additional programming at the factory.

H₂S SENSORS



**WIDE RANGE
H₂S SENSOR**

Sensor Type	Low Range	High Range
Max Range	0 - 200 ppm	0 - 2000 ppm
Min Range	0 - 10 ppm	0 - 100 ppm
Min Detection	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 LRP's unique membrane allows biogas flow while preventing liquids from passing through.



DEMISTER



LRP



**LRP WITH
REGULATOR**

PROTECTION

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



**EXTREME WEATHER
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**

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