





TRACE MOISTURE ANALYZER

Full-featured TDLAS Moisture Analyzer for critical H₂O measurements in gas streams

TYPICAL APPLICATIONS

UPSTREAM NATURAL GAS
MIDSTREAM NATURAL GAS

BIOGAS

CUSTODY TRANSFERS

OPTIMIZED **DESIGN**

- ▶ Low Volume, Multi-pass Laser Herriott Cell Optimized for Rapid Readings
- ▶ Patented ELIMINATOR CELL BLOCK Includes a Complete Sample System

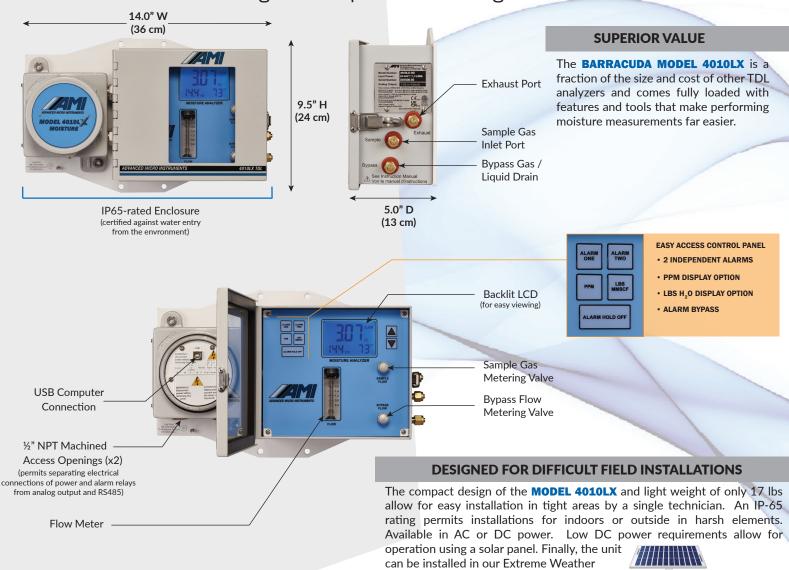
UNMATCHED **RELIABILITY**

- **▶ Built-in Analyzer Guardian Technology Protects Against Liquids & Particulates**
- **▶ Compact Size and Low Power for Easy Installation**
- **▶** Approved for Class I, Division 1, Groups B,C,D Installations

SUPERIOR **VALUE**

▶ Includes COMMAND CENTER Software for Advanced Configurations

The **BARRACUDA MODEL 4010LX** TDL Moisture Analyzer has significantly raised the bar for measuring water vapor in a natural gas stream.



Enclosure for additional protection.

LOADED WITH ADVANCED FEATURES

The Analyzer can be connected to AMI's powerful **COMMAND CENTER** software, providing operators access to the unit's more advanced settings. This included software allows for customization of alarm configurations, download of time stamped data log information, setting analyzer security, review of error codes, and realignment of the laser absorption peaks using our **SMART ALIGNMENT** protocol.





(Remote Installation powered by a standard solar panel)

APPROVED GLOBALLY FOR HAZARDOUS AREAS

Class I, Div 1, Groups B,C,D





The ELIMINATOR HERRIOTT CELL BLOCK with ANALYZER GUARDIAN PATENTED

integrates a low volume sample gas measurement laser cell, flow meter, metering valves and Analyzer Guardian liquid rejection technology into a compact-stacked block. Our innovative design keeps the total analyzer size small, eliminates the use of leak-prone fittings and tubing and makes the MODEL 4010LX's gas path short to provide fast and accurate moisture readings.

OPTIMIZING MEASUREMENT IN A COMPACT LASER CELL

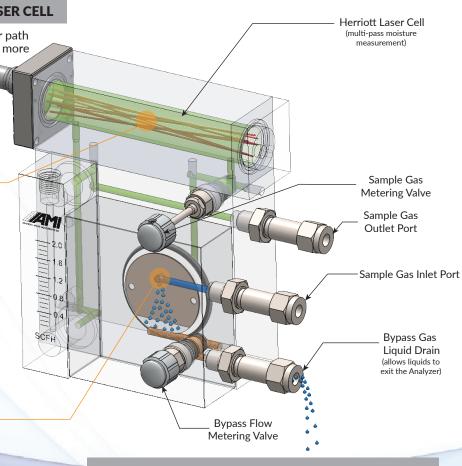
THE BEER-LAMBERT LAW shows that a longer laser path will yield greater sample gas absorbance, resulting in a more accurate & precise moisture measurement.

$$A = \log_{10} \frac{I_0}{I} = \varepsilon I c$$

AMI's uniquely small Herriot Laser Cell Design utilizes a multi-pass laser path, providing significantly more measurement capabilities compared to a single-pass cell design. This results in an incredibly accurate and precise moisture measurement in an extremely compact laser chamber.

PROTECTION AGAINST WATER SLUGS

ANALYZER GUARDIAN Technology allows for sample gas to pass through the Herriott Cell while rejecting particulates, water, compressor oils and glycols. This design will completely seal off and protect the 4010LX if a large liquid slug reaches the analyzer.

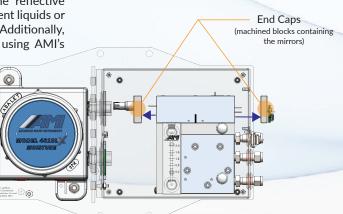


FASTEST RESPONSE TIMES

The entire gas path is contained within our patented **ELIMINATOR CELL BLOCK**. The gas travels a short 4 inches from the Sample Gas Inlet before entering the laser measurement cell, resulting in a fast, accurate and stable reading.

FIELD SERVICABLE DESIGN

The 4010LX design allows for the user to clean the reflective mirrors of the Herriott Cell in the field in the unlikely event liquids or particulates break through our protective membrane. Additionally, users can easily re-align the laser absorption peaks using AMI's **COMMAND CENTER** software.



BARRACUDA MODEL 4010L

PHYSICAL & ELECTRICAL SPECIFICATIONS

WEIGHT	MOUNTING	GAS CONNECTIONS	WETTED PARTS
17.0 lbs (7.7 kg)	Wall Mount or 2.0" Pipe	1/4" 316 S.S. compression fittings	316 S.S. fittings, electro-less nickelplated cell blocks, Teflon®-based liquid rejection membrane, acrylic flow meter & O-rings (Viton and Buna-N)

POW	/ER
DC	AC
10 – 24 VDC 1.0 A @12V max* 0.14 A @12V continuous	100 – 240 VAC, 50/60Hz 500 mA max

^{*} max power only during start-up

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Pictured: MODEL 4010LX in Extreme Weather Enclosure protects against harsh elements and freezing temperatures

Each unit undergoes a rigorous quality inspection, ships quickly to the customer and is backed by AMI's industry-leading Service & Support.

(Ex) II 1/2 G Ex ia op is/db IIB+H2 T4 Ga/Gb

Ingressed Protection: IP65

OPERATIONAL SPECIFICATIONS

MEASUREMENT RANGE	AMBIENT OPERATIONAL	FLOW RATE	INLET GAS PRESSURE	
(UNITS SELECTABLE)	TEMPERATURE	(RECOMMENDED)		
0.25 – 20.0 lbs or 0 – 420 ppm	20°F to 149°F (-6.7°C to 65°C)	1.0 to 2.0 SCFH (0.5 – 1.0 Lpm)	1.0 – 20.0 psig (0.07 – 1.4 bar)	

ANALYZER PERFORMANCE SPECIFICATIONS

90% RESPONSE TIMES	MINIMUM DETECTON LIMIT	REPEATABILITY	ACCURACY	GLOBAL REGULATORY APPROVALS
<2 sec	0.25 lbs (5.25 ppm)	±0.25 lbs (±5.25 ppm)	±0.25 lbs (±5.25 ppm)	Class I, Division 1,Groups B,C,D, T4 Class I Zone 0/1, AEx ia op is/db IIB+H2 T4 Ga/Gb IECEX: Ex ia op is/db IIB+H2 T4 Ga/Gb
				ATEV/LUCA.

ANALYZER KEY FEATURES

ELIMINATOR CELL BLOCK™	With a Complete Integrated Sample System (including flow meter, sample metering valve, bypass metering valve, liquid rejection membrane, and Laser Measurement Cell)			
ALARMS	2 fully adjustable concentration a Alarm Bypass Latching/Non-latching	alarms with configurable Alarm log Alarm Delays Failsafe/Non-failsafe	gic and Relay Contacts, featuring: Alarm Above or Below Setpoint Open or Close on Alarm	
ANALOG OUTPUTS	1 – 5 VDC and 4 – 20mA isolated output signals and Modbus bi-directional RS485 communication			
COMMAND CENTER	Software that works across AMI' Frror Status Display Alarm Configurations			
ACCESSORIES	▶ Extreme Weather Enclosur	me Weather Enclosure Mirror Cleaning Kit		
WARRANTY	▶ 2 Years for Parts & Labor for any defects in materials or workmanship			

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