





## **TRACE MOISTURE ANALYZER**

Full-featured TDLAS Moisture Analyzer for critical H<sub>2</sub>O measurements in gas streams

TYPICAL APPLICATIONS UPSTREAM NATURAL GAS

BIOGAS CUSTODY TRANSFERS

## OPTIMIZED DESIGN

UNMATCHED RELIABILITY

SUPERIOR

VALUE

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

### Includes COMMAND CENTER Software for Advanced Configurations



# MODEL 4010L DESIGN

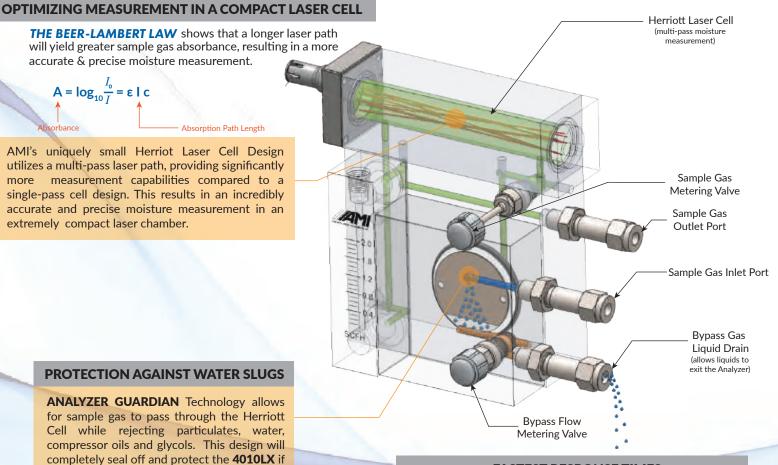
The **BARRACUDA MODEL 4010LX** TDL Moisture Analyzer has significantly raised the bar for measuring water vapor in a natural gas stream.



(connected to the COMMAND CENTER Software)

### 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.



#### **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.

End Caps

(machined blocks containing

#### **FIELD SERVICABLE DESIGN**

a large liquid slug reaches the analyzer.

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.

the mirrors)

## BARRACUDA MODEL 4010L

#### **PHYSICAL & ELECTRICAL SPECIFICATIONS**

WEIGHT MOUNTING GAS		-	WETTED PARTS		
17.0 lbs (7.7 kg)	Wall Mount or 2.0" Pipe	لاً" 316 S.S. compression fittings		316 S.S. fittings, electro-less nickelplated cell blocks, Teflon®-based liquid rejection membrane, acrylic flow meter & O-rings (\ and Buna-N)	Vitor
		POW	/ER		
DC				AC	
10 – 24 VDC 1.0 A @12V max*				100 – 240 VAC, 50/60Hz	



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.

Ingressed Protection: IP65

0.14 A @12V continuous \* max power only during start-up

#### **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/PESO: Ex ia op is/db IIB+H2 T4 Ga/Gb
				ATEX/UKCA:

### 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 alarms with configurable Alarm logic and Relay Contacts, featuring:Alarm BypassAlarm DelaysLatching/Non-latchingFailsafe/Non-failsafeOpen or Close on Alarm					
ANALOG OUTPUTS	1 – 5 VDC and 4 – 20mA isolated output signals and Modbus bi-directional RS485 communication					
COMMAND CENTER	<ul> <li>Software that works across AMI's Analyzers and gives users access to advanced functions:</li> <li>Error Status Display</li> <li>Alarm Configurations</li> <li>SMART REALIGNMENT of signature H<sub>2</sub>O and methane peaks</li> <li>Data Logger with time-stamped records of moisture readings, temperature, brown-outs and pressure as well as security settings</li> </ul>					
ACCESSORIES	Extreme Weather Enclosure Mirror Cleaning Kit					
WARRANTY	2 Years for Parts & Labor for any defects in materials or workmanship					

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