

ADVANCED MICRO INSTRUMENTS An ENPRO Company



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

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.



APPROVED GLOBALLY FOR HAZARDOUS AREAS

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







Connected to the **COMMAND CENTER** Software

MODEL 4010L ADVANCED TECHNOLOGIES

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

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.

AND CENTER the mirrors)

BARRACUDA MODEL 4010L

PHYSICAL & ELECTRICAL SPECIFICATIONS

WEIGHT	MOUNTING	GAS CONNECTIONS		WETTED PARTS		
17.0 lbs (7.7 kg)	Wall Mount or 2.0″ Pipe	¼" 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)		
POWER						
DC				AC		



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

* max power only during start-up

10 – 24 VDC

1.0 A @12V max*

0.14 A @12V continuous

OPERATIONAL SPECIFICATIONS

Each unit undergoes a rigorous quality inspection, ships quickly to th 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

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)

100 - 240 VAC, 50/60Hz

500 mA max

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
				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 Alarm Bypass Latching/Non-latching 	,			
ANALOG OUTPUTS	1 – 5 VDC and 4 – 20mA isolated output signals and Modbus bi-directional RS485 communication				
COMMAND CENTER	Software that works across AMI's Error Status Display Alarm Configurations	 oss AMI's Analyzers and gives users access to advanced functions: SMART REALIGNMENT of signature H₂O and methane peaks Data Logger with time-stamped records of moisture readings, temperature, brown-outs and pressure as well as security settings 			
ACCESSORIES	Extreme Weather Enclosure	Mirror Cleaning Kit			
WARRANTY	2 Years for Parts & Labor for any defects in materials or workmanship				

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