Moisture Analysis has reached a **NEW PEAK** in innovation.

The Natural Gas Industry has waited for a solution that not only delivers high performance and reliable measurements but one that also conveniently fits in your budget and space requirements. Advanced Micro Instruments has led the industry for years in providing the most sought-after oxygen analyzers, and we now have developed the industry’s most advanced TDL Moisture Analyzer that optimizes measurement performance, reliability and response times.

**THE BARRACUDA MODEL 4010BR** is compact, rugged and comes loaded with key innovations and features. It is designed to be *Your Ideal Solution* for measuring H₂O in the Natural Gas Industry.

And it’s Perfectly Priced.
THE BARRACUDA
MODEL 4010BR

TECHNICAL SPECIFICATIONS & FEATURES

PHYSICAL

Dimensions: 14.0”W x 9.5”H x 5.0”D (compact size) (35.6 cm x 24.1 cm x 12.7 cm)
Weight: 17 lbs (7.7 kg)
Digital Display: 4-digit LCD
Mounting: Wall mount or 2.0” pipe
Gas Connections: ¼" 316 S.S. compression fittings
Wetted parts: 316 S.S. fittings, electro-less nickel-plated cell block, acrylic flow meter & Vitron O-rings
2 - year warranty for Analyzer & Parts for any defects in materials or workmanship

TECHNOLOGY

Principle of Measurement: Tunable Diode Laser Absorption Spectroscopy (TDLAS) - specific to moisture in methane
Patent-pending Measurement Wavelength
Patent-pending Advanced LIQUID ELIMINATOR CELL BLOCK™ with a Complete Integral Sample System
COMMAND CENTER ELECTRONICS PLATFORM™ (accessed through the COMMAND CENTER User Interface Software)
includes:
• Datalogger for Moisture Readings, includes graph of complete moisture readings over a 5-day period or Excel file containing raw numerical data for custom analysis
• Error Status Display alerts users to any error(s) detected by the Analyzer
• SMART REALIGNMENT™ allows users to automatically realign signature H₂O and methane peaks with a touch of a key
• Brown-out history stores the last 5 brown-out incidents and recoveries
• Power-up history stores the last 10 times the unit was powered-up
• USB virtual comport and Modbus bi-directional RS485 communication to interface with advanced features

PERFORMANCE

Measurement Range: 0.25 – 20.0 lbs (5.25 – 420 ppm) H₂O
Minimum detection limit: 0.25 lbs (5.25 ppm) H₂O
Excellent repeatability ±1% of range or ±0.25 lbs (±5.25 ppm) of H₂O, whichever is greater
90% response times < 2 sec
Incredibly fast upscale / downscale response times
Data Collection Capacity provides 5 days of data recording @1 datapoint per minute
Sample Cell Pressure Range: 700 – 1100 mbara
Inlet gas pressure: 1.0 – 20.0 psig (0.07 – 1.4 bar)
RFI-protected

OPERATION

Ambient Operating Temperature Range: 20°F to 120°F (−6.7°C to 49°C)
Recommended flow rate: 1.0 to 2.0 SCFH* (0.5 – 1.0 Lpm)
*SCFH = standard cubic feet/hour
1 – 5 VDC and 4 – 20mA isolated analog output signals
Advanced analog output calibration for use when syncing with an EFM or other external device

ALARMS

2 fully adjustable moisture concentration alarms contacts, 5A @24VDC/115VAC
Alarm delays are programmable from 0 – 300 minutes
Alarm hold-off / bypass is programmable from 0 – 120 min

AREA CLASSIFICATION

Area Classification: CSA-approved for Class 1, Div. 1, Groups C & D, T3A

POWER

Requirements: Choice of 10 – 28 VDC or 117VAC; <250mA@12VDC (note: 1 second surge at start-up to 1.5 Amp)