

XSPCT Digital Analyzer

XSPCT Analyzer with Intelligence & Digital Valuation Solutions

PRECISION. CONFIDENCE. REAL-TIME INSIGHTS.

With product valuations on the line, accurate measurement matters. XSPCT delivers real-time measurement of hydrocarbon composition and fluid properties—built for the toughest oil and gas operations.

WHY OPERATORS CHOOSE XSPCT

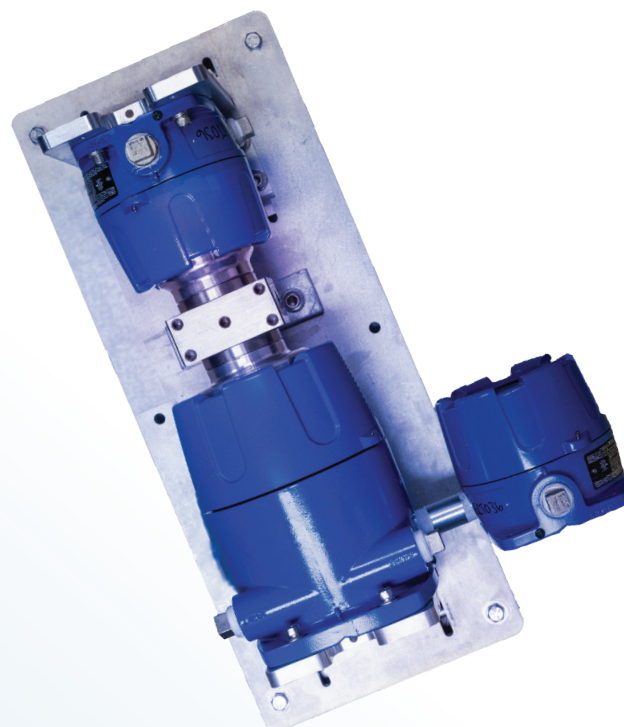
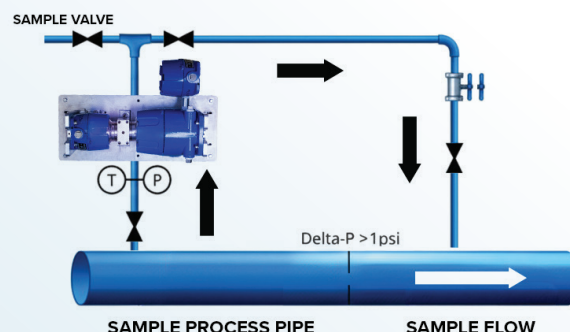
- » Accurate, Immediate Analysis – Know your product properties and valuation
- » Reduce Operational Risk – Continuous insights for smarter decisions
- » Streamline Resources – Fast installation and minimal maintenance
- » Regulatory Compliance – Meets GPA, API, ASTM, EU, and OSHA standards
- » Measure Performance Start to Finish – From new wells to full-scale operations
- » Real-time and AI insights

TURNKEY SOLUTIONS WITH XSPCT

- » Real-time measurement systems for crude oil, condensate and gas
- » Flow computer integration and Automation
- » Reservoir management insights through continuous compositional data on production
- » Loading and unloading systems for trucks, railcars, barges, and storage tanks
- » Calibration, meter proving, and optional Factory Acceptance Testing (FAT) to ensure accuracy and confidence

BUILT FOR CONFIDENCE

- » Online, real-time measurement with no venting or external gas
- » Reduces downtime and operating costs
- » Provides audit-ready data and operational transparency
- » Modern solution replacing old, maintenance-heavy technologies



PRODUCTION STREAM



Wellhead & Pipeline Flow

ONLINE XSPCT FLOW CELL



No Venting,
No Conditioning

REAL-TIME ANALYSIS



C1-C6+, BTU,
Fluid Properties

ACTIONABLE INSIGHT



Custody Transfer, BTU
Verification, Production
Optimization



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XSPCT System Specifications

APPLICATIONS

FLUID STREAMS	<ul style="list-style-type: none">• Integrated flow cell• Type: Natural Gas, Field Gas, Vent Gas, NGL & LPGs, Crude, Condensate• Ideal for upstream applications• Phase: Gas or liquid
PROPERTY ANALYSIS	<ul style="list-style-type: none">• Composition: C1-C6+ (GPA 2261, ASTM D1945), C1-C9+ (GPA 2286); others by request• CO2 with companion NDIR or TDLAS analyzer• Liquid C2-C6+, C2-C9+, C2-C15+ (GPA 2177, 2186, 2103)• Physical Properties: NHV, Relative Density; others by request• Liquid RVP, API Gravity; others by request
SAMPLE SYSTEM	<ul style="list-style-type: none">• None Required
CALIBRATION GAS	<ul style="list-style-type: none">• None Required
LINE PRESSURE	<ul style="list-style-type: none">• 0-1750 psig
LINE TEMPERATURE	<ul style="list-style-type: none">• 20°F to 200°F (-29°C to 93°C); Higher ranges available
FLOW REQUIREMENTS	<ul style="list-style-type: none">• ~1 psi pressure difference required to induce flow
RESPONSE TIME	<ul style="list-style-type: none">• 15 seconds per analysis point
DETECTION METHOD	<ul style="list-style-type: none">• NIR spectroscopy with on-line bypass flow cell

ELECTRICAL

INPUT POWER	<ul style="list-style-type: none">• 24 VDC / 2A max or 120VAC / 0.4A max
COMMUNICATIONS	<ul style="list-style-type: none">• MODBUS over TCP (others available upon request)• OPC UA, MQTT• Cellular connection and RS-485 serial communication available with optional Systems Hub
I/O	<ul style="list-style-type: none">• 3x 4-20mA Analog Input, 1x RTD input• Analog I/O (4x 4-20mA AI/O, 2x DI/I, 2x DO/O) with optional Systems Hub

PHYSICAL

ENCLOSURE	<ul style="list-style-type: none">• Painted aluminum Explosionproof housing
DIMENSIONS	<ul style="list-style-type: none">• 30"W x 24"H x 10"D
WEIGHT	<ul style="list-style-type: none">• 63 lbs.
AMBIENT CONDITIONS	<ul style="list-style-type: none">• -4°F to 122°F (-20°C to 50°C)• Sunshade recommended if >90°F (32°C)
CLASSIFICATION	<ul style="list-style-type: none">• Enclosure Type 4, IP 66• Class I Div 1, Group B,C,D, T5 @ -20°C ≤ Ta ≤ 50°C• Class I Zone 1 Group IIB