



ASPROC

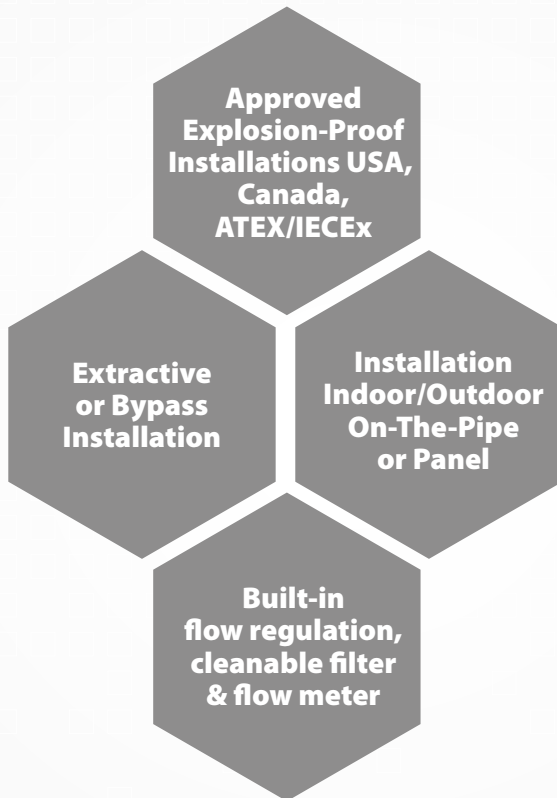
WATER DEW POINT AND MOISTURE ANALYZER

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Explosion-Proof Moisture Analyzer

Leading edge Nanosensor Technology



more FEATURES

- -110°C to +20°C dewpoint Sensor
- Fast, Accurate and Repeatable
- Built-in temperature compensation
- 4/20 mA sink or source output and RS-485/422
- HART and Modbus compatible interfaces
- 3" viewport, IP68 & Explosionproof
- State-of-the-art electronics & software
- Advanced User-friendly Interface
- Continuous Status and Diagnostics display
- On~screen histogram and trend graph
- Optional Built in Pressure Sensor
- Virtual Analyzer PC s/w for training & evaluation
- 316 Stainless Steel & PTFE wetted parts
- Built in Self Verification & Calibration Options
- NIST calibrations, Data & Status Recording

APPLICATIONS

- Natural Gas
- Petrochemical
- Industrial Gases
- Power Generation
- Furnace Gas / Heat Treating
- Air Dryers



Technical SPECIFICATIONS

Dew point meter Sensor

- Range: -110°C to +20°C dewpoint (-166°F to +68°F dewpoint)
- Accuracy: $\pm 2^{\circ}\text{C}$ temperature corrected
- Repeatability: 0.8°C
- Response time: 95% of step change in 3 min.
- Sample flow: >1 LPM

Temperature Sensor

- Range: -40°C to +70°C
- Accuracy: $\pm 2^{\circ}\text{C}$

Pressure Sensor

- 2 to 1000 PSIA $\pm 1\%$, 316L stainless steel wetted parts (higher pressure ranges available)

Electrical

- Self configuring power modes:
 - 90-260VAC 47-440Hz
 - 12-24VDC 10VA
 - RS-422 isolated
 - Analog Output 4/20mA sink or source isolated with HART®
 - up to 3 Alarm Relays – 3A, 250VAC contacts
- Optional 4/20mA Loop Powered

Mechanical

- All 316 Stainless Steel and PTFE wetted parts
- Enclosure: Aluminum or optional 316 Stainless Steel, Glass lens, IP66 & IP68
- Pressure: 5000 PSIA (345 Bar)
- Flow Control Orifice can be placed at Inlet (default) or Outlet;
Built in serviceable/cleanable 100 micron Filter

Approvals

- FM/CSA Explosion Proof Cert. Class I, Div I, Groups B, C And D Class II, III, Div 1, Groups E, F, G
- ATEX Explosion Proof Cert. ATEX 2 GD, Exd I & IIC; IECEx, Exd I & IIC

Temperature Range

- ExMa Moisture Meter: -20°C to +60°C
- Electronics: -40°C to +85°
- Moisture Sensor: -20°C to +60°C
- Pressure Sensor: -20°C to +85°C
- LCD operating: -20°C to +70°C storage: -30°C to +80°C

More Features

- Through the glass user interface buttons, allow operation while enclosure is closed
- NIST traceable calibrations
- Units of measure: °C & °F dewpoint, ppmV, ppmW, μB H₂O vapor pressure, grams of H₂O / m³, Lbs H₂O /106 standard cubic feet in Natural Gas. (All units auto-scaled)
- Virtual Analyzer PC software for training and evaluation, allows the user to experience the exact interface on their own PC with voice explanations, Modbus ASCII and RTU



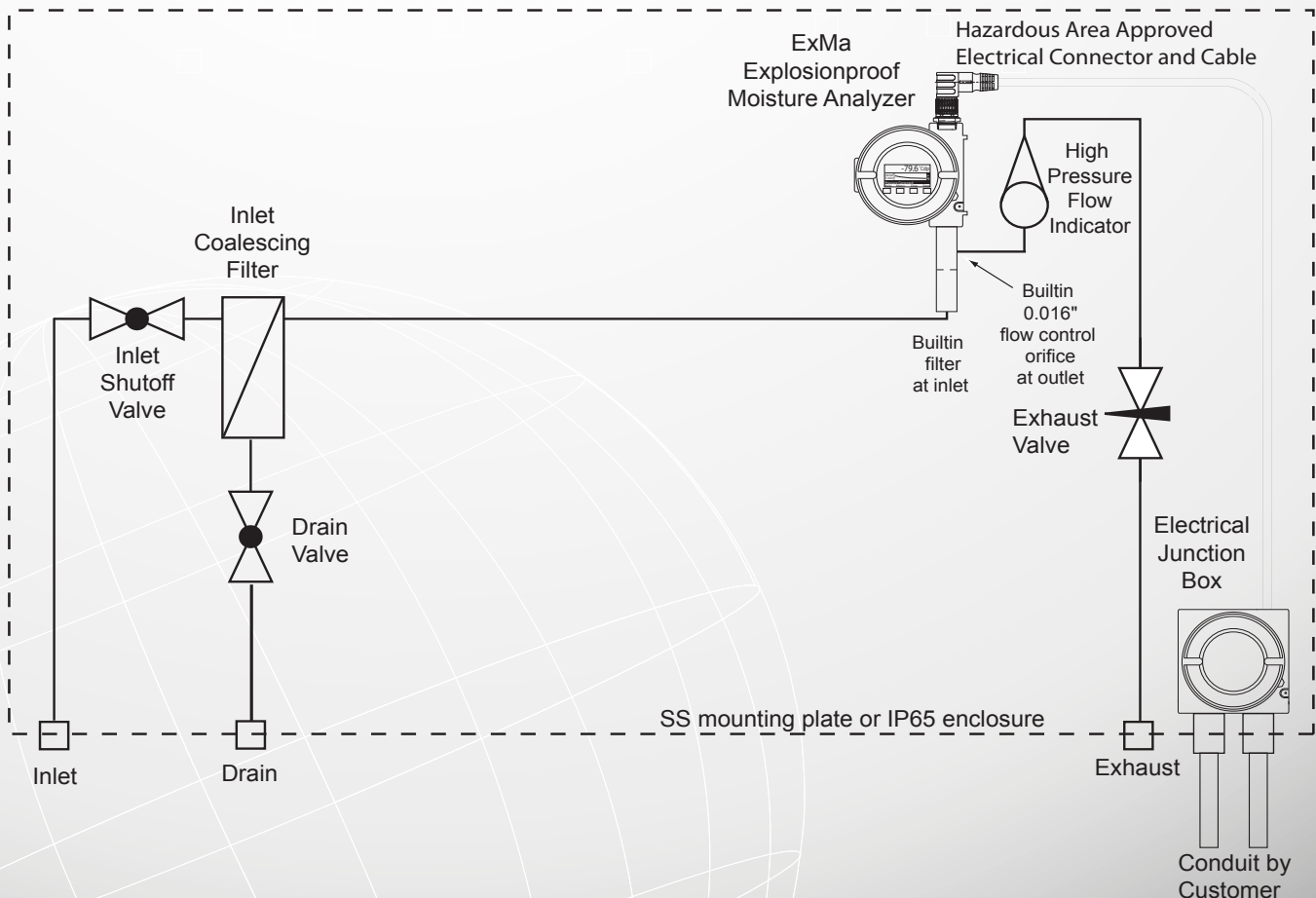
Turn-key Solution

Moisture in Hydrocarbon Gas Sampling System



FEATURES

- Better Accuracy and Reliability
- Easy Field Calibration
- Extractive or Bypass Sampling
- Mounting on wall or 2" pipe
- Fiberglass or stainless steel enclosures
- Multiple stream inlets
- Shutoff isolation for calibration and service
- Pressure regulation for optimal measurement
- Particulate filtration and Liquid knock-out
- Temperature control
- Automatic Calibration - Date/Time or Remote
- Hazardous Area Installations
- As built system drawings
- Built to API Recommended Practice 555



Turn-key Solution

Moisture in Vaporized Liquid Hydrocarbon - Sampling System



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