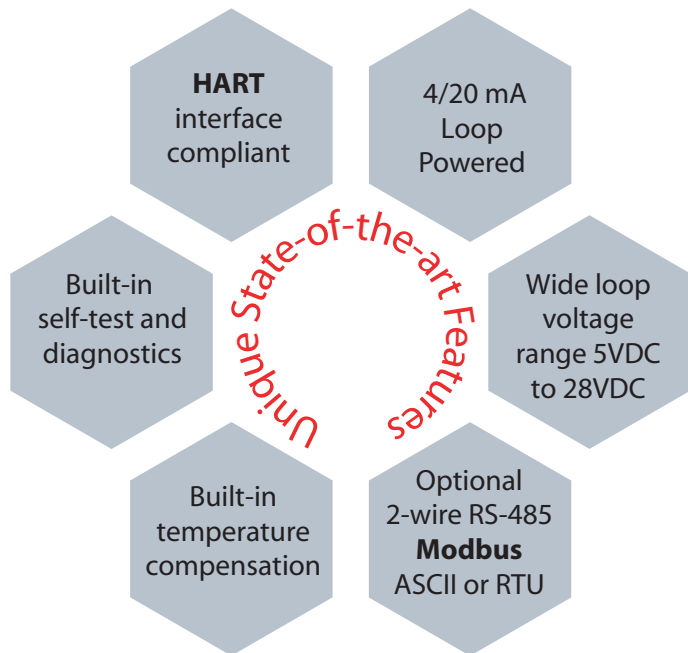


PLMa PhyMetrix Loop-powered Moisture Analyzer



Leading edge Nanosensor Technology



more FEATURES

- -110°C to +20°C dewpoint Sensor
- Fast, Accurate and Repeatable
- Small & Lightweight
- State-of-the-art electronics & software
- 316 Stainless Steel & PTFE wetted parts
- NIST calibrations
- Stainless Steel IP68 housing
- Protection from reversed polarity
- Robust Industrial M12 connector, IP68 protection
- 3/4"-16 process interface threads with Viton O-ring
- Interfaces to a variety of panel meters
- Molded IP67 cables available for harsh environment
- Units of measure °C & °F dewpoint, ppmV, ppmW, $\mu\text{B H}_2\text{O}$ vapor pressure, grams of $\text{H}_2\text{O} / \text{m}^3$, Lbs $\text{H}_2\text{O} / 10^6$ standard cubic feet in Natural Gas.

APPLICATIONS

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



PhyMetrix, Inc.
Moisture Measurement
Innovation at work

- ◆ Test
- ◆ Measure
- ◆ Calibrate
- ◆ Quick
- ◆ Reproducible
- ◆ NIST Traceable

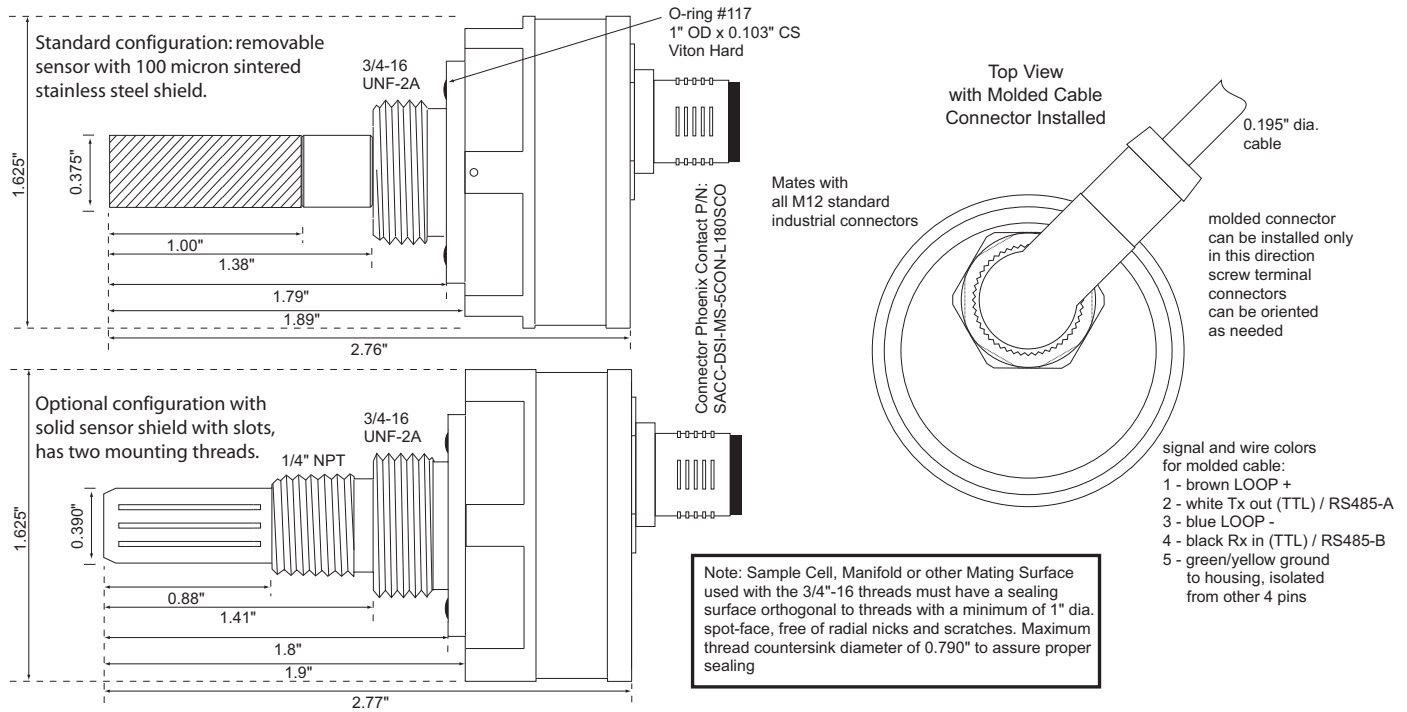
Proudly Designed, Developed and Manufactured in the USA



PLMa PhyMetrix Loop-powered Moisture Analyzer



Mechanical



PLMa Technical Specifications

Moisture Sensor	Range: -110°C to +20°C dewpoint (-166°F to +68°F dewpoint) Accuracy: ±2°C temperature corrected Response time: 95% of step change in 3 min.	Repeatability: 0.8°C Sample flow: recommended >1 LPM (flow rate has no effect on accuracy)
Temperature Sensor	Range: -40°C to +70°C Accuracy: ±2°C	
Ergonomics	Easy and quick installation, no tools required.	
Electrical	5VDC to 28VDC two wire loop operation 4mA to 20mA, resolution +/- 0.002mA, accuracy +/- 0.01mA Housing isolated from 4-20mA Loop Measurement resolution of moisture sensor: 1pF resulting in less than 0.01°C 5 pin M12 industrial connector IP68 when mating connector fully engaged Mating connectors with molded cables approved for Hazardous Location use available Two conductor cable min. 24AWG (for total cable length >1 mile min. 20AWG) To meet CE requirements cable must be shielded. Built-in digital I/O for controlling relays Optional 2 wire RS-422/485	
Mechanical	All 316 Stainless Steel and PTFE wetted parts for fast response time. Sensor shield standard configuration stainless steel sintered filter Enclosure all stainless steel construction IP67 protection when installed Dimensions (overall) including connector- L: 3.25" (82.6mm) Dia: 1.62" (41.3mm), flats for 1.5" wrench. process threads 3/4"-16 and 14mm x 1.25mm, optionally additional 1/4"NPT can install with either threads Weight Total: 6 oz (0.17 Kg) Pressure: vacuum to 5000 PSIA (345 Bar)	
Temperature and humidity Range	PLMa Analyzer: -20°C to +60°C (0-100%RH)	Electronics: -40°C to +85°C Moisture Sensor: -20°C to +60°C
Miscellaneous Features	NIST traceable calibrations Units of measure: °C & °F dewpoint, ppmV, ppmW, µB H ₂ O vapor pressure, grams of H ₂ O / m ³ and Lbs H ₂ O /10 ⁶ standard cubic feet in Natural Gas. Digital & Analog: Two Wire 4/20mA loop with HART® Transmitter stores all HART setup Optional Modbus: 2 wire RS-485 ASCII or RTU	

ORDERING INFORMATION	Part Number
PhyMetrix Loop-powered Moisture Analyzer Model: PLMa Included Accessories: M12 mating Connector with molded 10 feet (3 meter) cable	PLMa
standard setup 4mA=-100°Cdp 20mA=+20°Cdp, specify if a different setup is required	
Solid Sensor Shield	suffix -S
Modbus RS-485 option specify ASCII or RTU	suffix -M
Intrinsically Safe ATEX option	suffix -I

Represented by: