



PhyMetrix®

Model DPT 900

Explosion-Proof Moisture Analyzer



Highlights

- -110°C - +20°C Dew point Measurement Range
- Built-in flow regulation, cleanable filter & flow meter
- 3" viewport, IP68 & Explosion-Proof
- On-screen graphical display
- 4/20mA sink or source output and RS-422
- NIST Calibrations
- Fast, Accurate & Repeatable

Applications

- Petrochemical
- Industrial Gases
- Natural Gas
- Power Generation
- And many more...

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General Description

State of the Art

The DPT 900 is designed with the best of both worlds; simplicity and functionality. Combining years of expertise, PhyMetrix has incorporated its proprietary NanoPore Structure sensor to develop a portable analyzer capable of highly accurate and repeatable measurements.

The explosion proof DPT 900 series is tailored for continuous online sampling, with power, I/O and environment settings to ensure the device will be fully compatible with testing conditions. Moreover, the required periodic calibration to maintain your traceability is also a one step process via our knowledgeable staff.

The NanoTechnology Sensor

The PhyMetrix moisture analyzers utilize a proprietary Nanotechnology based metal oxide sensor. The NanoPore structure allows for a quick response on wetting-up and drying-down, high accuracy and reproducibility.

Nanoscience by its very nature allows us to bring change in the critical properties of materials and thus add a new dimension to their applications. Consequently, our technology allows accurate, reproducible and quick measurements in the range of -110°C to 20°C dewpoint.

Simple Operation

DPT 900 is easy to install and operate. Drawing its power from 3 possible power inputs, it outputs a 4-20mA, RS-422 or 3A, 250VAC alarm relays. The multiple I/O options allows the instrument to be easily integrated into the system. Furthermore, its range can be custom adjusted to represent any section of the -110°C to 20°C giving the readings greater sensitivity.

Once connected, the analyzer can make measurements right away! No further calibration is required! The histogram will auto scale the axis to display for stability verification. Software will also allow the user to select 6 different units of measuring dew point such as °C or °F or ppmV etc. These features make measuring simple and productive.

Rugged & Robust

The DPT-900 is constructed with 316 grade stainless steel. Sensor materials have been designed to resist common contaminants such as Glycol, Ethanol, NGL and H₂S, passing our rigorous 3 point inspection guaranteeing quality engineering. This rugged construction makes it perfectly suited for industrial applications while. Inlet mounting comes with various process connection options, bound to meet your needs.

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Technical Specifications

Performance		Operating Conditions	
Measurement (DP)	-110°C - +20°C	Operating Humidity	0-85% (Non-Condensing)
Accuracy	+/- 2°C	Operating Temp.	-20°C - 60°C
Response Time	3min (95% Change)	Operating Pressure	2-2000PSIA ±1%, 316L stainless steel wetted parts
Repeatability	0.8°C	Flow Rate	>1 LPM
Resolution	1pF (equivalent 0.01°C)	Inlet Metering Valve	Max 2000psi
Electrical Specifications		Mechanical Specifications	
Power Modes (Auto Configuring)	1) 90-260VAC (47-440Hz) 2) 12-24VDC (10VA) 3) 4/20mA Loop Powered (Without Display only)	Protection	Aluminum or optional 316 Stainless Steel, IP66& IP68 FM/CSA Explosion Proof Certified Class I, Div I, Groups B, C and D Class II, III, Div 1, Groups E, F and G ATEX Explosion Proof Certified ATEX 2 GD, Exd I & IIC; IECEx, Exd I & IIC
I/O (Limited to Power Modes 1) &2) Only)	a) RS-422 Isolated b) 4/20mA sink or source isolated with HART® c) Alarm Relays – 3A, 250VAC Contacts	Dimensions	L: 8.5" (216mm) W: 5.7" (145mm) H: 4.7" (120mm)
		Weight	5.5Lbs (2.5kg)

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Installation Connection Options

