



# Model DPT 500

Portable Moisture Analyzer



## Highlights

- -110°C - +20°C Dewpoint Measurement Range
- Built-in temperature compensation
- On-screen graphical display
- Optional 4/20mA output
- 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 500 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 ergonomic design of the DPT 500 allows the user to comfortably hold the unit in the hand weighing only 1.75lbs; allowing convenience when testing multiple locations. 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 500 is easy to install and operate. Using 1/8" Swagelok Inlet and Outlet fittings, the analyzer can be easily connected to any sample line.

To minimize stabilization time, a mechanical seal has been designed to segregate the sensor from the environment. This seal will allow the sensor to be drying down in between measurements making testing times much shorter.

Once connected, 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.

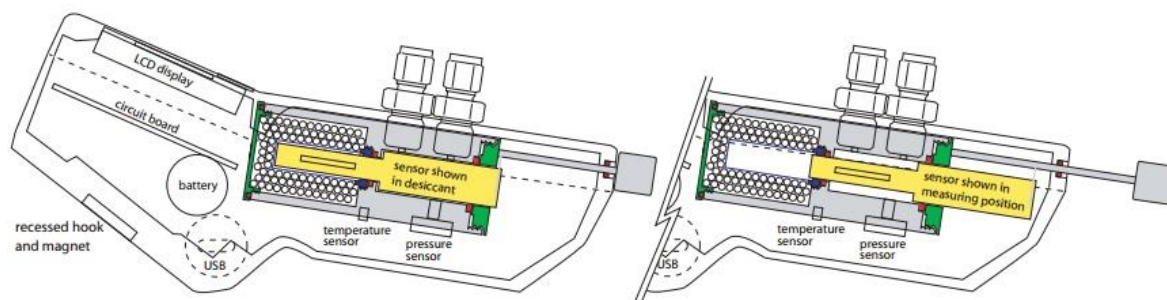
### **Rugged and Robust**

The DPT-500 is constructed with Impact resistant Polyamide 12, which also has a high resistance to flammability and abrasion. Sensor materials have been designed to resist common contaminants such as Glycol, Ethanol, NGL and H<sub>2</sub>S, passing our rigorous 3 point inspection guaranteeing quality engineering. This rugged construction makes it perfectly suited for the field servicing multiple industries.

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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	Up to 150PSIA
Repeatability	0.8°C	Flow Rate	>1 LPM
Electrical Specifications		Mechanical Specifications	
External AC Universal Power Adapter	100-240VAC 50-60Hz	Protection	Impact Resistant (>7Nm to EN50014) IP67/EN 60529
Li-Ion Rechargeable Battery	Up to 35Hrs Operation	Dimensions	L: 7.36" (187mm) W: 4.17" (106mm) H:1.97" (50mm)
Resolution	1pF (equivalent 0.01°C)	Weight	1.5Lbs (0.8kg)



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