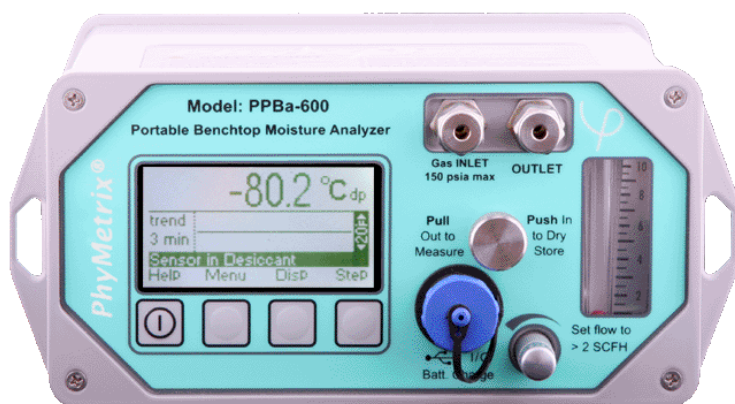




PhyMetrix®

Model DPT 600

Benchtop Moisture Analyzer



Highlights

- -110°C - +20°C Dewpoint Measurement Range
- Built-in temperature compensation and flow meter
- On-screen graphical display
- Optional 4/20mA output
- NIST Calibrations
- Fast, Accurate & Repeatable

Applications

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

Model DPT 600 - Benchtop Moisture Analyzer

General Description

State of the Art

The DPT 600 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 multi-function DPT 600 is tailored for use in the lab while capitalizing on past designs. With a built-in inlet metering valve and flow meter, the instrument need not be routed through multiple devices to achieve the ideal measuring conditions. 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 600 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.

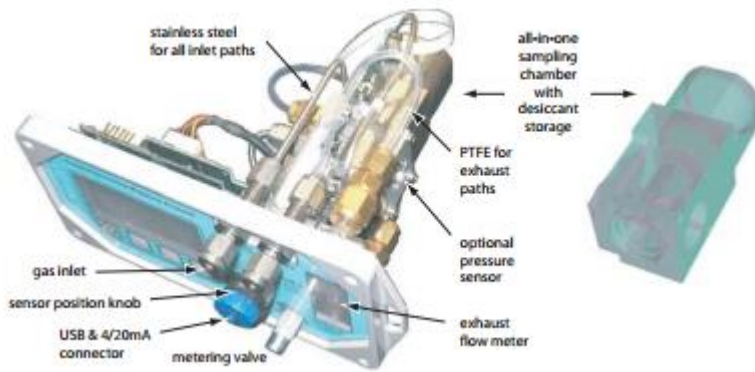
Compact & Robust

The DPT 600 is protected with an extruded aluminum enclosure, which will keep the weight to a minimal, while carefully protecting the sensitive instrument. The compact design will allow the instrument to fit on any busy workbench, while its weight and enclosed battery can allow the user to work in the field as well. 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.

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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
Resolution	1pF (equivalent 0.01°C)	Inlet Metering Valve	Max 2000psi
Electrical Specifications		Mechanical Specifications	
External AC Universal Power Adapter	100-240VAC 50-60Hz	Protection	Extruded Aluminum Enclosure
External power and I/O Port	USB Mini B female connector – IP67/IP68 with Sealing Cap	Dimensions	L: 7.83" (199mm) W: 6.38" (162mm) H: 3.32" (84mm)
Li-Ion Rechargeable Battery	Up to 35Hrs Operation	Weight	3.5Lbs (1.6kg)



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