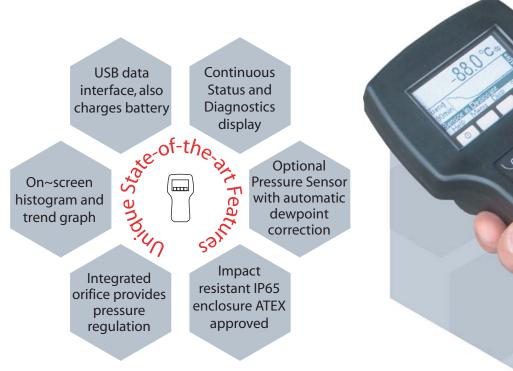
PPMa PhyMetrix Portable Moisture Analyzer



Leading edge Nanosensor Technology





more FEATURES

- -110°C to +20°C dewpoint Sensor
- Fast, Accurate and Repeatable
- Built-in temperature compensation
- Small & Lightweight
- State-of-the-art electronics & software
- Advanced User-friendly Graphical Interface
- Programmable data logging
- Battery backed clock calendar
- Built-in Sensor desiccant store for rapid results
- 316 Stainless Steel & PTFE wetted parts
- 1/8" Swagelok® compression fittings
- NIST calibrations
- optional 4/20 mA output
- Virtual Analyzer PC training & demo software

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



PPMa PhyMetrix Portable Moisture Analyzer



Retractable Sensor

PPMa Technical Specifications

sensor shown in measuring position recessed hook and magnet USB Sensor shown in measuring position temperature sensor pressure sensor sens

Moisture Sensor	Range: -110°C to +20°C dewpoint (-166°F to +68°F dewpoint)				
	Accuracy: ±2°C temperature corrected Re	peatability: 0.8°C			
	Response time: 95% of step change in 3 min. Sai	mple flow: >1 LPM			
Temperature	Range: -40°C to +70°C				
Sensors	Accuracy: ±2°C				
Pressure Sensor	0 to 150 PSIA ±1%, 316L stainless steel wetted parts; higher pressures can be ordered optionally				
Ergonomics	Comfortable to hold in hand, contoured body design, lightweight 1.75 Lbs				
	Hook and magnet for easy temporary field securing / mounting				
	• Easy to read graphic LCD display with user controlled backlight brightness (LCD is readable without the backlight)				
	Snap dome tactile membrane switches with dynamically assigned legends				
	Audible feedback upon button press as well as for warnings and alarms				
	Auto scaling graph / histogram on moisture measurement display for stability verification				
	Easy to use with verbose built-in context sensitive Help screens				
	Battery Saver, with user selectable Auto-power-down times, can also be disabled				
	Built-in pressure measurement and pressure corrected moisture readings, simultaneously displayed with the uncorrected reading for				
	greater ease of understanding				
	Verbose Status bar with indications, warnings and audible errors				
	• User selectable locking with or without a password.				
	Built-in battery backed clock calendar				
Electrical	External AC Universal Power adapter (100-240VAC 50-60Hz) v	with USB connector			
	Rechargeable Li-Ion battery, recharges through the USB connector from the PC or from the supplied universal power adapter Sampling system and sensor are isolated from electrical interface and supply grounds Measurement resolution of moisture sensor: 1pF resulting in less than 0.01 °C External power and I/O: USB mini B female connector - IP67 / IP68 with Sealing Cap				
Mechanical	1/8" Swagelok® Inlet and Outlet fitting adapters for the SAE/MS 5/16-24 ports.				
	Inlet adapter has a built-in flow control orifice, eliminating pressure regulators while maintaining sufficient but not excessive flows.				
	All 316 Stainless Steel and PTFE wetted parts, small surface area stainless steel sampling chamber for fast response time.				
	Integral Sensor retraction into desiccant storage chamber for fast response-time when measuring low moisture				
	Enclosure				
	Impact resistant (>7 Nm to EN 50014) Polyamide 12, IP65/EN 60529 ATEX hazardous area use (Ex II 2 G) approved (PTB 02 ATEX 1076U), Flammability: UL 94 HB Abrasion resistant Polycarbonate display lens Dimensions- L: 7.36" (187mm) W: 4.17" (106mm) H: 1.97" (50mm)				
	Weight Total: 1.75 Lbs (0.8 Kg)				
T	Pressure: 150 PSIA (10.3 Bar)				
Temperature	PPMa Analyzer: -20°C to +60°C	Electronics: -40°C to +85°C			
Range	Moisture Sensor: -20°C to +60°C	Pressure Sensor: -20°C to +85°C			
Miscellaneous	LCD operating: -20°C to +70°C storage: -30°C to +80°C Enclosure: -40°C to +60°C				
Features	NIST traceable calibrations				
li catules	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. (All units autoscaled) Digital & Analog I/O: USB, 4/20mA with HART® Data larging a right point time standard cubic feet in Natural Gas. (All units autoscaled)				
	Data logging - single point, multipoint, time stamping, each sample records: dewpoint, temperature and pressure, (memory > 4,000 samples) Virtual Analyzer PC software for training and evaluation,				
	allows the user to experience the exact interface on their own PC with voice explanations				
ODDEDDIG DISORMATION					

ORDERING INFORMATION	Part Number
PhyMetrix Portable Moisture Analyzer Model: PPMa	PPMa
Included Accessories: USB cable (mini B male to A male) AC universal power adapter with USB connector two (2) 1/8" tube to SAE/MS 5/16-24 Swagelok® adapters (flow control orifice built into one of the SAE adapters) Exhaust pigtail - Hanging hook and magnet	
Pressure sensor option 0-150 psia w/automatic pressure correction	suffix -P
Analog Output 4/20 mA with HART® option	suffix -A
Intrinsically Safe ATEX option	suffix -I

Represented by:		

Ordering example: part number for the Analyzer with a Pressure Sensor and 4/20mA would be: PPMa-P-A

Doc. Revision 5