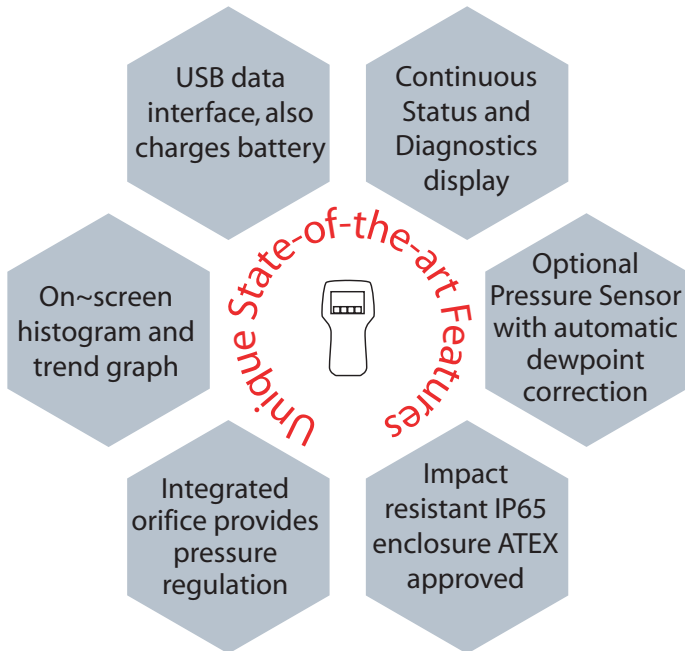


# PPMa PhyMetrix Portable Moisture Analyzer



## 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

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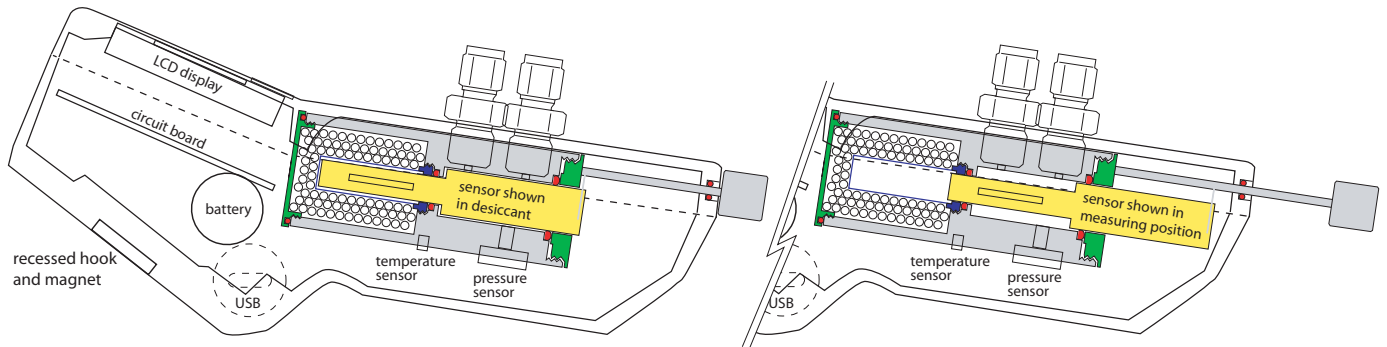
地址 : 深圳市龙岗区沙平北路111号吉茂大厦608A



# PPMa PhyMetric Portable Moisture Analyzer



Retractable Sensor



PPMa Technical Specifications

|                        |  |   |
|------------------------|--|---|
| Moisture Sensor        | Range: -110°C to +20°C dewpoint ( -166°F to +68°F dewpoint)<br>Accuracy: ±2°C temperature corrected<br>Response time: 95% of step change in 3 min.   | Repeatability: 0.8°C<br>Sample flow: >1 LPM   |
| Temperature Sensors    | Range: -40°C to +70°C<br>Accuracy: ±2°C  |   |
| Pressure Sensor        | 0 to 150 PSIA ±1%, 316L stainless steel wetted parts; higher pressures can be ordered optionally   |   |
| Ergonomics             | <ul style="list-style-type: none"> <li>• Comfortable to hold in hand, contoured body design, lightweight 1.75 Lbs</li> <li>• Hook and magnet for easy temporary field securing / mounting</li> <li>• Easy to read graphic LCD display with user controlled backlight brightness (LCD is readable without the backlight)</li> <li>• Snap dome tactile membrane switches with dynamically assigned legends</li> <li>• Audible feedback upon button press as well as for warnings and alarms</li> <li>• Auto scaling graph / histogram on moisture measurement display for stability verification</li> <li>• Easy to use with verbose built-in context sensitive Help screens</li> <li>• Battery Saver, with user selectable Auto-power-down times, can also be disabled</li> <li>• Built-in pressure measurement and pressure corrected moisture readings, simultaneously displayed with the uncorrected reading for greater ease of understanding</li> <li>• Verbose Status bar with indications, warnings and audible errors</li> <li>• User selectable locking with or without a password.</li> <li>• Built-in battery backed clock calendar</li> </ul> |   |
| Electrical             | External AC Universal Power adapter (100-240VAC 50-60Hz) with USB connector<br>Rechargeable Li-Ion battery, recharges through the USB connector from the PC or from the supplied universal power adapter<br>Sampling system and sensor are isolated from electrical interface and supply grounds<br>Measurement resolution of moisture sensor: 1pF resulting in less than 0.01°C<br>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.<br>Inlet adapter has a built-in flow control orifice, eliminating pressure regulators while maintaining sufficient but not excessive flows.<br>All 316 Stainless Steel and PTFE wetted parts, small surface area stainless steel sampling chamber for fast response time.<br>Integral Sensor retraction into desiccant storage chamber for fast response-time when measuring low moisture<br>Enclosure<br>Impact resistant (>7 Nm to EN 50014) Polyamide 12,<br>IP65/EN 60529 ATEX hazardous area use (Ex II 2 G) approved (PTB 02 ATEX 1076U),<br>Flammability: UL 94 HB<br>Abrasion resistant Polycarbonate display lens<br>Dimensions- L: 7.36" (187mm) W: 4.17" (106mm) H: 1.97" (50mm)<br>Weight Total: 1.75 Lbs (0.8 Kg)<br>Pressure: 150 PSIA (10.3 Bar)   |   |
| Temperature Range      | PPMa Analyzer: -20°C to +60°C<br>Moisture Sensor: -20°C to +60°C<br>LCD operating: -20°C to +70°C storage: -30°C to +80°C  | Electronics: -40°C to +85°C<br>Pressure Sensor: -20°C to +85°C<br>Enclosure: -40°C to +60°C |
| Miscellaneous Features | NIST traceable calibrations<br>Units of measure: °C & °F dewpoint, ppmV, ppmW, µB H <sub>2</sub> O vapor pressure, grams of H <sub>2</sub> O / m <sup>3</sup> and Lbs H <sub>2</sub> O / 10 <sup>6</sup> standard cubic feet in Natural Gas. (All units autoscaled)<br>Digital & Analog I/O: USB, 4/20mA with HART®<br>Data logging - single point, multipoint, time stamping, each sample records: dewpoint, temperature and pressure, ( memory > 4,000 samples)<br>Virtual Analyzer PC software for training and evaluation,<br>allows the user to experience the exact interface on their own PC with voice explanations  |   |

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

Represented by:

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