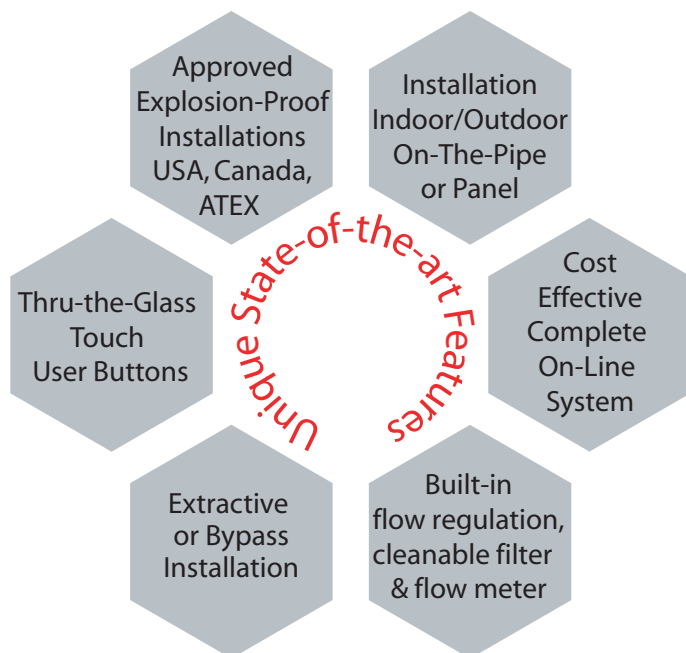


# ExMa PhyMetrix Explosion-Proof Moisture Analyzer



## Leading edge Nanosensor Technology



### more FEATURES

- -110°C to +20°C dewpoint Sensor
- Fast, Accurate and Repeatable
- Built-in temperature compensation
- 4/20 mA sink or source output and RS-422
- 3" viewport, IP68 & Explosionproof
- State-of-the-art electronics & software
- Advanced User-friendly Interface
- Continuous Status and Diagnostics display
- On~screen histogram and trend graph
- Optional Built in Pressure Sensor
- Virtual Analyzer PC s/w for training & evaluation
- 316 Stainless Steel & PTFE wetted parts
- Diverse Selection of Inlet Port Fittings
- NIST calibrations

### APPLICATIONS

- Natural Gas
- Petrochemical
- Industrial Gases
- 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

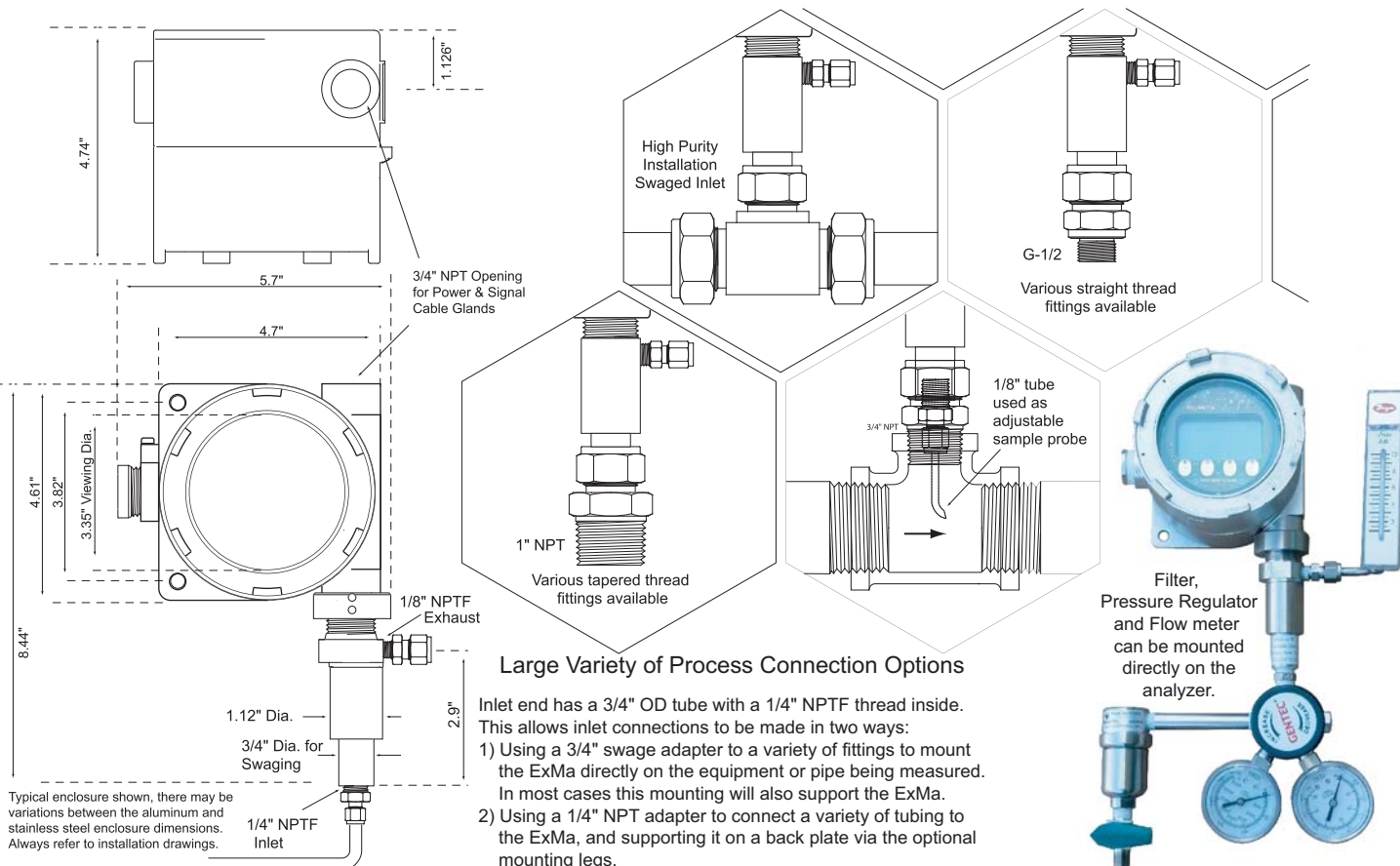
Proudly Designed, Developed and Manufactured in the USA



# ExMa PhyMetrix Explosion-Proof Moisture Analyzer



## Installation and Connection Options



## Technical Specifications

Moisture Sensor	Range: -110°C to +20°C dewpoint ( -166°F to +68°F dewpoint ) Accuracy: $\pm 2^\circ\text{C}$ temperature corrected Response time: 95% of step change in 3 min.	Repeatability: 0.8°C Sample flow: >1 LPM
Temperature Sensors	Range: -40°C to +70°C ; Accuracy: $\pm 2^\circ\text{C}$	
Pressure Sensor	2 to 1000 PSIA $\pm 1\%$ , 316L stainless steel wetted parts	
Electrical	3 automatic detection - self configuring power modes: 1) 90-260VAC 47-440Hz or 2) 12-24VDC 10VA or 3) 4/20mA Loop Powered (without display only) Power modes 1 or 2 have the following I/O: a) RS-422 isolated b) 4/20mA sink or source isolated with HART® c) 3 Alarm Relays - 3A, 250VAC contacts	
Mechanical	3/4" OD tube and 1/4" NPTF Inlet, 1/8" NPTF Outlet All 316 Stainless Steel and PTFE wetted parts, small surface area stainless steel sampling chamber for fast response time. Enclosure Aluminum or optional 316 Stainless Steel, Glass lens, 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 Dimensions- L: 8.5" (216mm) W: 5.7" (145mm) H: 4.7" (120mm) Weight Total: 5.5 Lbs (2.5 Kg) Pressure: 1000 PSIA (68 Bar) Flow Control Orifice can be placed at Inlet or Outlet; Built in serviceable/cleanable 100 micron Filter	
Temperature Range	ExMa Analyzer: -20°C to +60°C Moisture Sensor: -20°C to +60°C	Electronics: -40°C to +85°C Pressure Sensor: -20°C to +85°C LCD operating: -20°C to +70°C storage: -30°C to +80°C
Miscellaneous Features	Through the glass user interface buttons, allow operation while enclosure is closed NIST traceable calibrations Units of measure: °C & °F dewpoint, ppmV, ppmW, $\mu\text{B H}_2\text{O}$ vapor pressure, grams of $\text{H}_2\text{O}$ / $\text{m}^3$ and Lbs $\text{H}_2\text{O}$ / $10^6$ standard cubic feet in Natural Gas Virtual Analyzer PC software for training and evaluation, allows the user to experience the exact interface on their own PC with voice explanations	

ORDERING INFORMATION		Part Number
PhyMetrix Explosion Proof Moisture Analyzer	Model: ExMa	ExMa
Included: Inlet Filter, Inlet Orifice (specify nominal pressure)		
Stainless Steel Enclosure		suffix - <b>S</b>
Pressure sensor option 0-1000 psia automatic pressure correction		suffix - <b>P</b>
Mounting Legs		suffix - <b>M</b>
Analog Output 4/20 mA with HART® option		suffix - <b>A</b>
Explosion Proof ATEX option		suffix - <b>I</b>
If Required Specify Exhaust and/or Outlet Adapters		

Represented by: