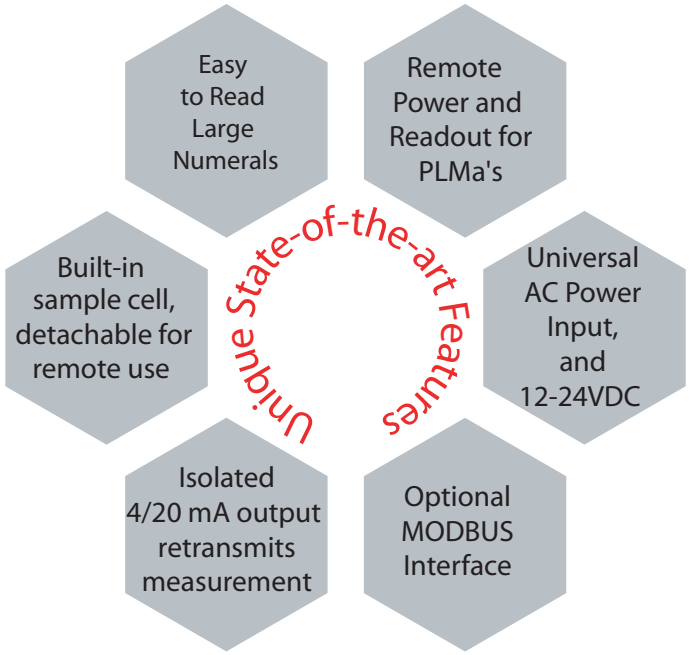
RMi PhyMetrix Moisture Monitor Indicator

Feature Rich Rackmount Display for moisture measurement!



more FEATURES

- Provides Remote Display and Power for PLMa's
- State-of-the-art electronics & software
- Advanced User-friendly Interface
- Continuous Status and Diagnostics display
- On~screen histogram and trend graph
- Optional: two programmable Alarm Relays with programmable hysteresis
- Optional: Built-in Self Verification & Calibration
- Optional: Built-in Pressure Sensor
- Standard 19" Rack Mount 2U, 3.5" high x 8" deep
- Universal AC power supply and 12-24VDC
- Units of measure °C & °F dewpoint, ppmV, ppmW, µB H_2O vapor pressure, grams of H_2O / m^3, Lbs H_2O /10^6 standard cubic feet in Natural Gas.
- Virtual Analyzer PC s/w for training & evaluation

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

Rev - 2020

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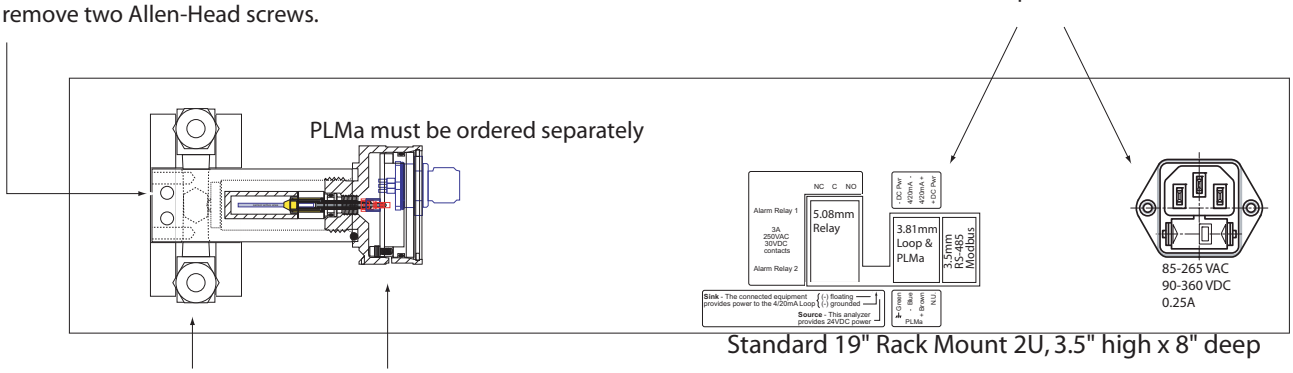
Installation and Connection Options

Phymetrix model RMi rear panel view

The sample cell can be attached to the rear panel of the RMi (as shown) or can be remotely placed near the gas sample point. A ten foot cable is provided, longer two wire shielded twisted pair cable can be connected up to 5,000 feet long. To detach the sample cell remove two Allen-Head screws.

RMi can be powered by AC or DC power, connect the desired power as shown.



Standard 19" Rack Mount 2U, 3.5" high x 8" deep

Either of the two 1/4" Swagelok Compression fittings can be Inlet or Outlet for the gas to be measured, max 5000 psig.

When ready to commission the analyzer, remove the PLMa from its desiccant storage shipping container and place into sample cell, make sure O-ring is compressed but do not over tighten; then connect the M12 connector and secure its keyed fastening collar by screwing it on.

Technical Specifications

Moisture Sensor	Consult transmitter (model: PLMa User's Manual) Range -110˚C to +20˚C Accuracy: ±2˚C temperature corrected Repeatability: 0.8˚C Response time: 95% of step change in 3 min. Sample flow: >1 LPM
Temperature Sensor	-40˚C to +70˚C ±2˚C
Electrical	Two automatic detection - self configuring power modes: 1) 90-260VAC 47-440Hz or 2) 12-24VDC 10VA with the following optional I/O: a) isolated RS-422/485 b) isolated 4/20mA sink or source c) 2 Alarm Relays - 3A, 250VAC / 30VDC contacts Insulation Resistance: >100MΩ at 500VDC
Mechanical	Built-in sample cell: 1/8" NPTF Inlet & Outlet ports, typically provided with ¼" Swagelok compression fittings All 316 Stainless Steel wetted parts, small surface area stainless steel sampling chamber for fast response time, built-in SS self-cleaning filter. Sample cell can be removed and placed remotely (up to 5,000 feet away) 10 foot cable provided. Pressure: 5000 PSIA (345 Bar) Dimensions (painted steel enclosure): 19" Rack Mount 2U, 3.5" high x 8" deep Weight Total: 12.5 Lbs (5.7 Kg)
Temperature Range	RMi electronics: -40˚C to +85˚C LCD operating: -20˚C to +70˚C storage: -30˚C to +80˚C
Miscellaneous Features	NIST traceable calibrations Virtual Analyzer PC software for training and evaluation, allows the user to experience the exact interface on their own PC with voice explanations Units of measure: ˚C & ˚F dewpoint, ppmV, ppmW, µB H_2O vapor pressure, grams of H_2O / m^3 and Lbs H_2O /10^6 standard cubic feet in Natural Gas Modbus: ASCII and RTU

ORDERING INFORMATION	Part Number
Moisture Monitor Indicator Model: **RMi**	**RMi**
Analog Output 4/20mA	suffix - A
Alarm Relays	suffix - R
Digital RS485 Modbus interface	suffix - D
PLMa must be ordered separately	

Represented by:

Doc. Revision 1