

PVA PhyMetrix Virtual Analyzer



New Easy and Effective Training Tool

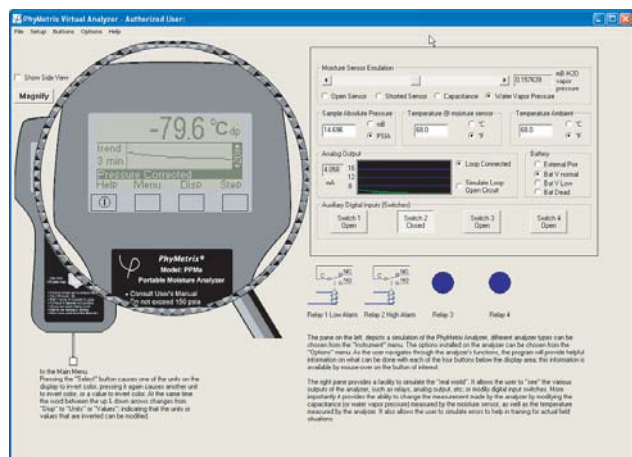
- ◆ Our **Freeware** PVA program allows you to interactively experience the PhyMetrix Moisture Analyzer product line on your own Windows® PC, with audio help, and visually accurate simulations.
- ◆ Personnel can become familiar with the analyzers and practice changing the operational parameters without the possibility of accidentally making unwanted modifications.

In the Main Menu
Pressing the "Select" button causes one of the units on the display to invert color, pressing it again causes another unit to invert color, or a value to invert color. At the same time the word between the up & down arrows changes from "Disp" to "Units" or "Values", indicating that the units or values that are inverted can be modified.

The pane on the left depicts a simulation of the PhyMetrix Analyzer. Different analyzer types can be chosen from the "Instrument" menu. The options installed on the analyzer can be chosen from the "Options" menu. As the user navigates through the analyzer's functions, the program will provide helpful information on what can be done with each of the four buttons below the display area; this information is available by mouse-over on the button of interest.

The right pane provides a facility to simulate the "real world". It allows the user to "see" the various outputs of the analyzer, such as relays, analog output, etc; or modify digital input switches. More importantly it provides the ability to change the measurement made by the analyzer by modifying the capacitance (or water vapor pressure) measured by the moisture sensor, as well as the temperature measured by the analyzer. It also allows the user to simulate errors to help in training for actual field situations.

- Fully Functional Interactive Simulation of the PhyMetrix analyzer of your choice
- Look and Feel of the actual analyzer
- Incorporates the same software as the actual analyzer
- The analyzer is graphically modeled
- The display can be magnified for easier reading
- Buttons can be actuated with the mouse or F-keys
- Mechanical functionality is accurately simulated (e.g. sensor retracting into desiccant storage)
- User can change the installed options on the analyzer to evaluate or train on exact configurations
- Train for Failures & Errors in actual field situations
- Mouse-overs on areas of interest provide textual help
- AudioVisual based quick tour of the program gets you operational in minutes



Analyzer Display with Magnify selected

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The Analyzer Inputs are simulated and the user can modify:

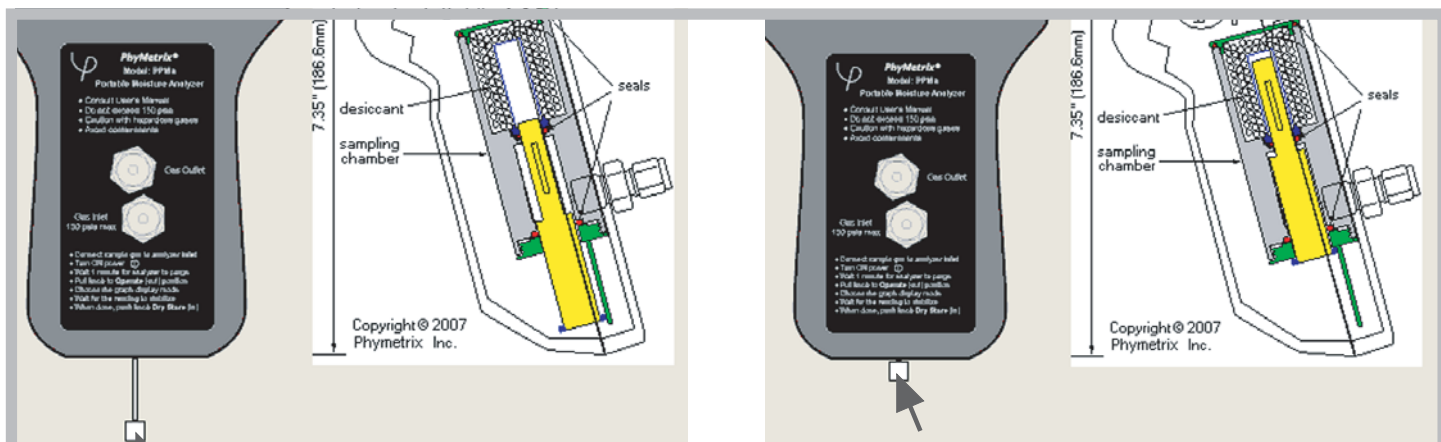
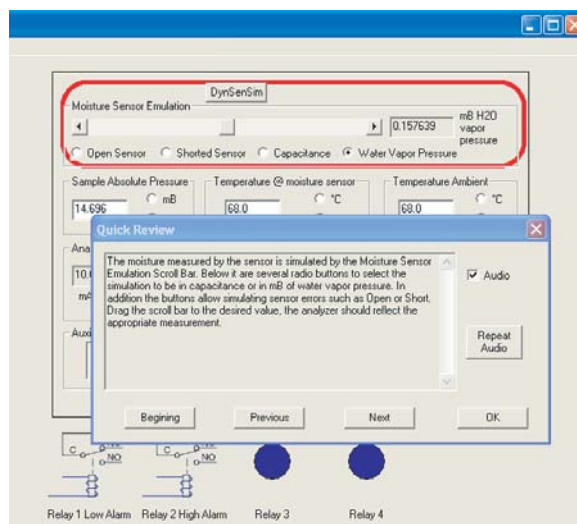
- Moisture Sensor measurement, in capacitance or mB of water vapor pressure (sensor open and short can also be simulated)
- Pressure Sensor measurement in mB or PSIA
- Temperature Sensor measurement in °C or °F
- Digital input signals from external switches (e.g. sensor position in desiccant)
- The Battery state can be altered to emulate low battery, charging etc.

The Analyzer Outputs are simulated:

- The 4/20mA analog output is shown as the current value in mA with a histogram graph. The user can also simulate and open circuit on the loop.
- Digital Output signals such as Relays are emulated graphically
- Digital communications are emulated through a teletype like user interface

Six easy steps

1. Download from our website and copy to your hard disk.
2. Register and receive at no cost an activation key.
3. Run the program, and select the "Quick Review" option from the "Help" menu. Follow the audio and textual explanation for the features that are automatically outlined in red. →
4. Select the "Analyzer Type" from the "Options" menu, and the installed options that you are interested in.
5. "Power ON" the analyzer by clicking on the button with the line-in-a-circle power switch symbol, or press F5.
6. Follow the instructions of the selected analyzer User's Manual to get a full experience of the analyzer capabilities, or just explore the analyzer functions by using the onscreen help.



Mechanical functionality is simulated with mouse click-and-drag operations. The sensor can be moved in and out of the desiccant storage by clicking on the actuator and dragging it in or out. The side view also shows the sensor moving in and out of the desiccant.

Requirements:

Windows® 2000 or above operating system, Internet connection for installation and updates, Pointing Device, 8MB free hard disk space