Curriculum Coverage

- Acquiring Physical Phenomena
- Flow Measurement
- Pressure Measurement
- Level Measurement
- Temperature Measurement
- Humidity Measurement (with option)

Features

- Computer based Process Variables Measurement Trainer used to teach acquiring and measuring different physical phenomena

- Includes all required sensors to measure process variables

- For use with NI's Data Acquisition & Control hardware

Description

PVMT001 is a bench-mount trainer that is used to teach students how to acquire and measure different physical phenomena. The sensors used include: Electromagnetic and Paddle Wheel for Flow; Piezoresistive for Pressure; Capacitance for Level; Thermocouple, RTD and Thermistor for Temperature; and Humidity Sensor for Humidity (option).

Developed for use with a wide variety of NI's data acquisition and control platforms - easy-to-use, highly expandable programmable automation controllers, intelligent communication interfaces, and rugged I/O mod-ules. These industrial I/O modules filter, calibrate, and scale raw sensor signals to engineering units and perform self-diagnostics to look for problems.

The curriculum covered includes understanding the characteristics of the different sensing devices and comparing between their different behaviors and characteristics.

Components

- Electromagnetic Sensor
- Paddle Wheel Sensor
- Piezoresistive Sensor
- Capacitance Sensor
- Thermocouple
- RTD
- Thermistor
- Flow Control Valve
- Pump
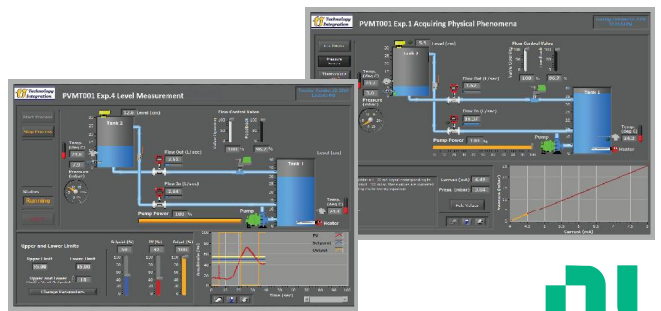- Humidity Sensor (Option)

NI [1] Compatible Platforms

- Compact RIO
- Others [2]

[1.] NI

[2.] Please check with us about compatibility of other NI Platforms

Required NI Modules

- cRIO: NI-9219, NI-9203, NI-9474, NI-9263, NI-9215, NI-9422

Software

- User friendly with easy to use interface
- Developed using NI LabVIEW package
- Built-in safety features & limitations, and designed for students' use

Ordering Information
Process Variables Measurement Trainer

PVMT001 - A - B - C

NI* Platform	Power	Options
1... cRIO	1... 220 VAC	0... No Option
		1... Humidity Sensor

*Purchase NI Hardware Separately

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