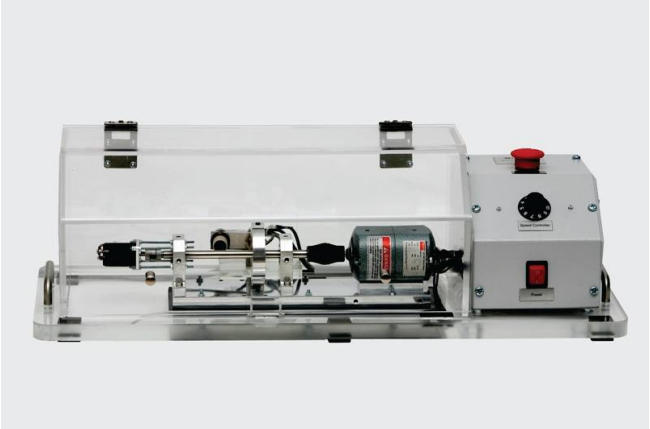
Position & Speed Measurement Trainer

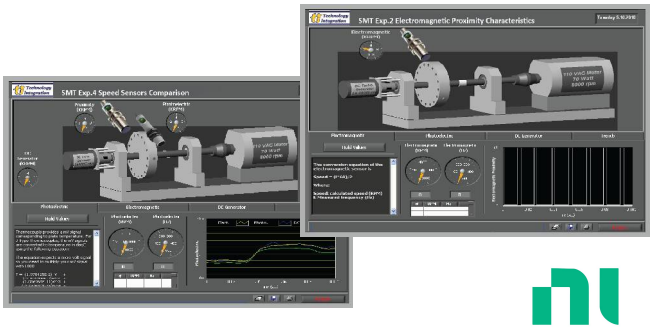
Curriculum Coverage

- Photoelectric Characteristics
- Rotary Encoder Characteristics
- Electromagnetic Sensor
- Speed Sensors Comparison



Features

- Computer based Speed Trainer used to teach students how to measure the position and the speed of a rotating shaft
- Includes all required sensors to measure shaft speed and position
- For use with NI's Data Acquisition & Control hardware



Description

Rotating components are basic parts in almost all industrial machinery; examples are generators, turbines, pumps... etc.

The objective of this trainer is to teach students how to measure the position and the speed of a rotating shaft using speed & position sensors, and using a graded disc from 0^{o} to 360^{o}. In addition, the student will have the chance to compare between the characteristics and behavior of different speed sensors; as a result the student will be able to note the differences between them.

Components

- Motor
- Variable Speed Drive
- Photoelectric Sensor
- Electromagnetic Sensor
- Rotary Encoder Sensor

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-9425, NI-9422, NI-9263, NI-9474

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
Position & Speed Measurement Trainer

PMT001 - A - B

NI* Platform	Power
1... cRIO	1... 220 VAC

*Purchase NI Hardware Separately

For complete product specifications, pricing, and information:
e-mail: info@ti.jo / website: www.ti.jo