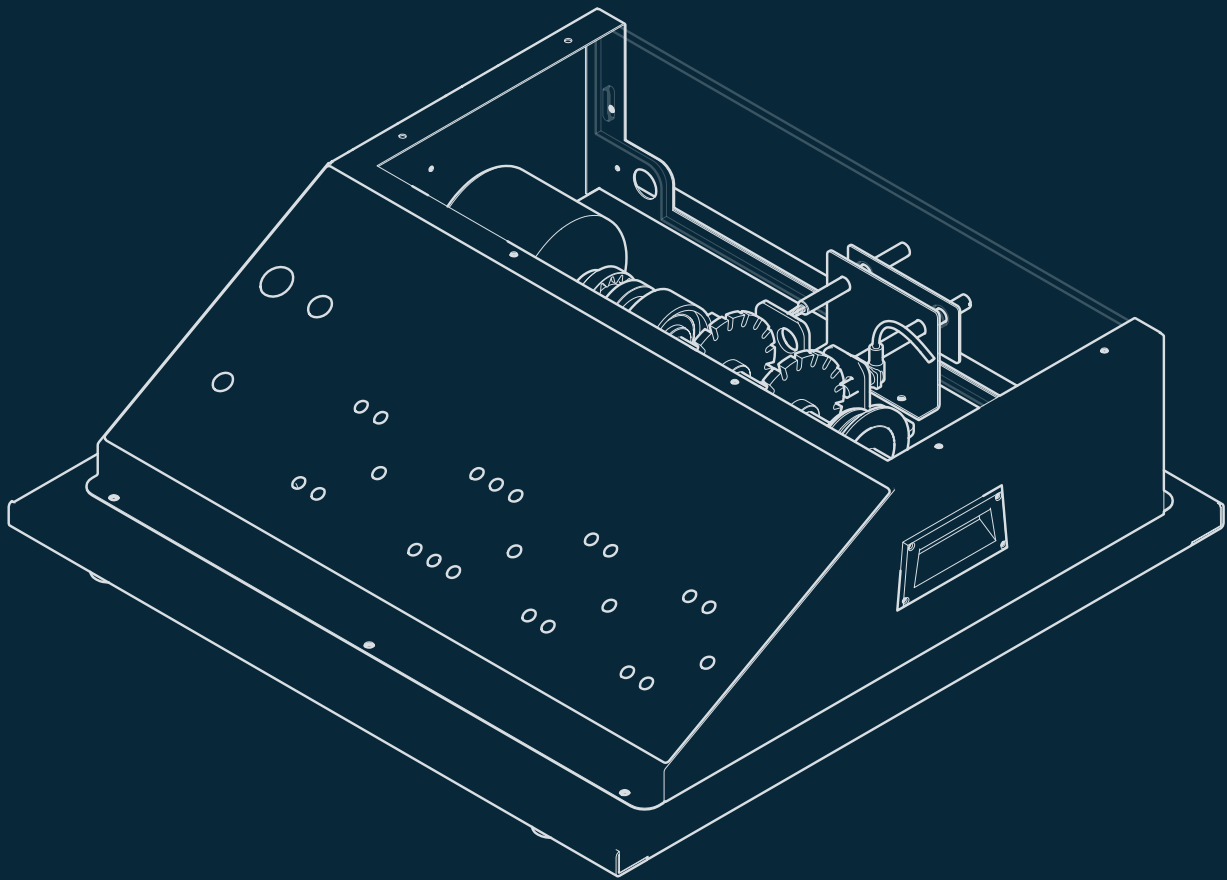




# Speed and position sensors trainer





The EM-200-25 Speed and Position Sensors trainer is used to demonstrate the operation, diagnosis and testing of common types of analog and digital speed and position sensors as they operate on a real vehicle all in one place. The trainer provides a safe and effective method of demonstrating the operating principles of different types of speed and position sensors that are common on today's cars and trucks normally used for wheel speed, engine speed and vehicle speed.

## MAIN FEATURES

- Complete curriculum and courseware.
- Analog (passive) inductive sensor with adjustable air gap to show effects on operation.
- Digital Hall-Effect sensor.
- Radial and axial digital (active) magneto-resistive sensors (adjustable radial sensor to show effect on operation).
- 2mm sensor test receptacles for hookup of DVOM and Oscilloscope.
- Equipped with sensor disconnect switches for separate testing of both harness side and/or component side of sensor.
- Trainer features a bench top design that allows clear student visualization of sensor operation, adjustment, diagnosis and testing.
- Electronically controlled variable speed electric drive motor.
- 120V AC/DC & 5V power supply included.

## EDUCATIONAL ADVANTAGES

- Demonstrates full functionality of both analog (passive) and digital (active) speed and position sensors.
- Electronically controlled variable speed drive motor allows sensor operation from zero RPM through steady and variable speeds.
- Magneto-resistive magnetic strip sensor can detect instant movement of rotation or 0 kph/mph.
- Allows student demonstrations of the diagnosis and testing of:
  - CKP (Crankshaft Position Sensors)
  - CMP (Camshaft Position Sensors)
  - VVT (Variable Valve Timing) sensors
  - ABS Wheel speed sensors (all types)
  - RPM and Vehicle Speed sensors
  - Steering Wheel sensors and Hill Assist sensors

## TECHNICAL SPECIFICATIONS

- **Dimensions:** 22 x 22 x 6.75 inch (55.8 x 55.8 x 17.1 cm) / 24 x 24 x 13 inch (60.9 x 60.9 x 30 cm) with packaging.
- **Weight:** 41 lb (18.6 kg) / 46 lb (20.9 kg) with packaging.
- **Power Requirements:** 120VAC 15A circuit.

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