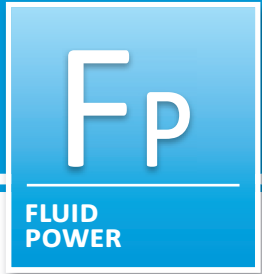
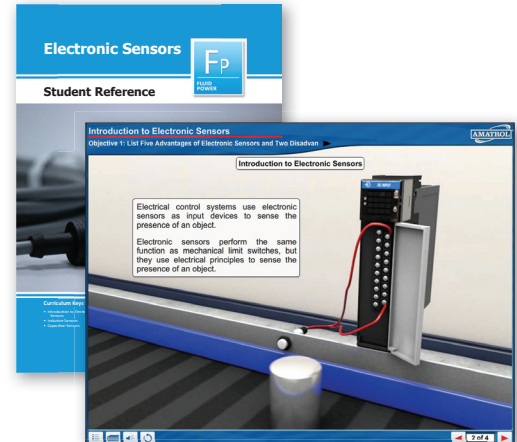


Portable Electronic Sensors Learning System

990-SN1



Student Reference Guide



Interactive Multimedia Curriculum



990-SN1

Learning Topics:

- Electronic Sensor Advantages
- Sensor Components
- Sensor Operation
- Transistors
- Inductive Sensors
- Capacitive Sensors
- Magnetic Reed Sensors
- Hall-Effect Sensors
- Photoelectric Sensors
- Sensor Measurement
- Sensor Applications
- Relay Circuits

Amatrol's Electronic Sensors Learning System (990-SN1) is a portable solution for when there is a need to teach electronic sensors where there is limited space such as in a conference room, LAB area, or even a shop floor desk! Its compact size and durable case also provide for safe storage when your limited space must be used for teaching other subjects or when the system must be transported to a different location in the facility for use.

This portable learning system teaches the operation of electronic non-contact sensors and their applications in industry, such as sensing movement, detecting metal versus non-metal, and determining speed. The 990-SN1 is small and light, yet offers a depth and breadth of knowledge and skills that far exceeds its physical size.

The 990-SN1 includes a variety of electronic sensors, such as capacitive proximity, inductive proximity, magnetic reed, hall-effect, and photoelectric. These sensors are used with a large array of test materials to show how each sensor completes industrial tasks in real-world environments. Combined with Amatrol's world-class curriculum, this innovative product provides learners with a thorough understanding of electronic sensors and their applications.



Technical Data

Complete technical specifications available upon request.

Portable Case

Suitcase: 15" L x 11" W x 5 1/2" D
Durable ABS Plastic

Power Supply Assembly – 12 VDC

Indicator Lamp

Lead Set

Slide Base

Target Holder

Magnetic Reed Switch

Capacitive Proximity Switch

Inductive Proximity Switch

Hall-Effect Switch

Photoelectric Switch

Switch Mount Adapter

Interface Bracket

Interface Cam

Target Set

Multimedia Curriculum (M11142)

Instructors Guide (C11142)

Install Guide (D11142)

Student Reference Guide (H11142)

Additional Requirements

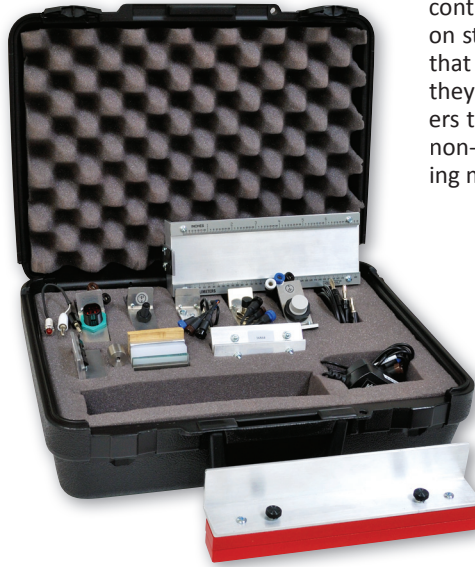
See <http://www.amatrol.com/support/computer-requirements>

Utilities Required:

120/220 VAC, 60 /50 Hz, Power Outlet

Electronic Sensor Training: Anywhere, Anytime!!

Learners only need a small amount of desk space and a computer to study vital sensor-related industry skills. Electronic sensors are used in industrial applications for feedback to systems like electrical relay controls and programmable logic controllers. Learners will practice real-world skills on standard industrial grade components to ensure that they are familiar with actual components when they enter the workforce. The 990-SN1 allows learners to build relay circuits that separate metallic and non-metallic materials, design controls for a stamping machine, and use a sensor as a safety interlock.



World-Class Electronic Sensor Curriculum

Amatrol offers extensive, thorough, interactive curriculum covering electronic sensor advantages, functions, and operation. The 990-SN1 curriculum covers five different electronic sensors and describes the characteristics that affect each sensor's performance. As an example, learners will study a Hall-Effect sensor and understand what the Hall-Effect is and how the sensors are utilized on conveyor belts and in computer keyboards. Learners will then test a Hall-Effect's performance by sensing distance, hysteresis, and the ability to sense through different materials using supplied sensor targets.



Interactive Multimedia

Complimentary Student Reference Guide

A sample copy of the Electronic Sensors Learning System's Student Reference Guide is included with the system for your evaluation. Sourced from the Electronic Sensors multimedia curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfect-bound book. Student Reference Guides supplement these courses by providing a condensed, inexpensive reference tool that learners will find invaluable once they finish their training making it the perfect course takeaway.

If you would like to inquire about purchasing additional Student Reference Guides for your program, contact your local Amatrol Representative for more information.

