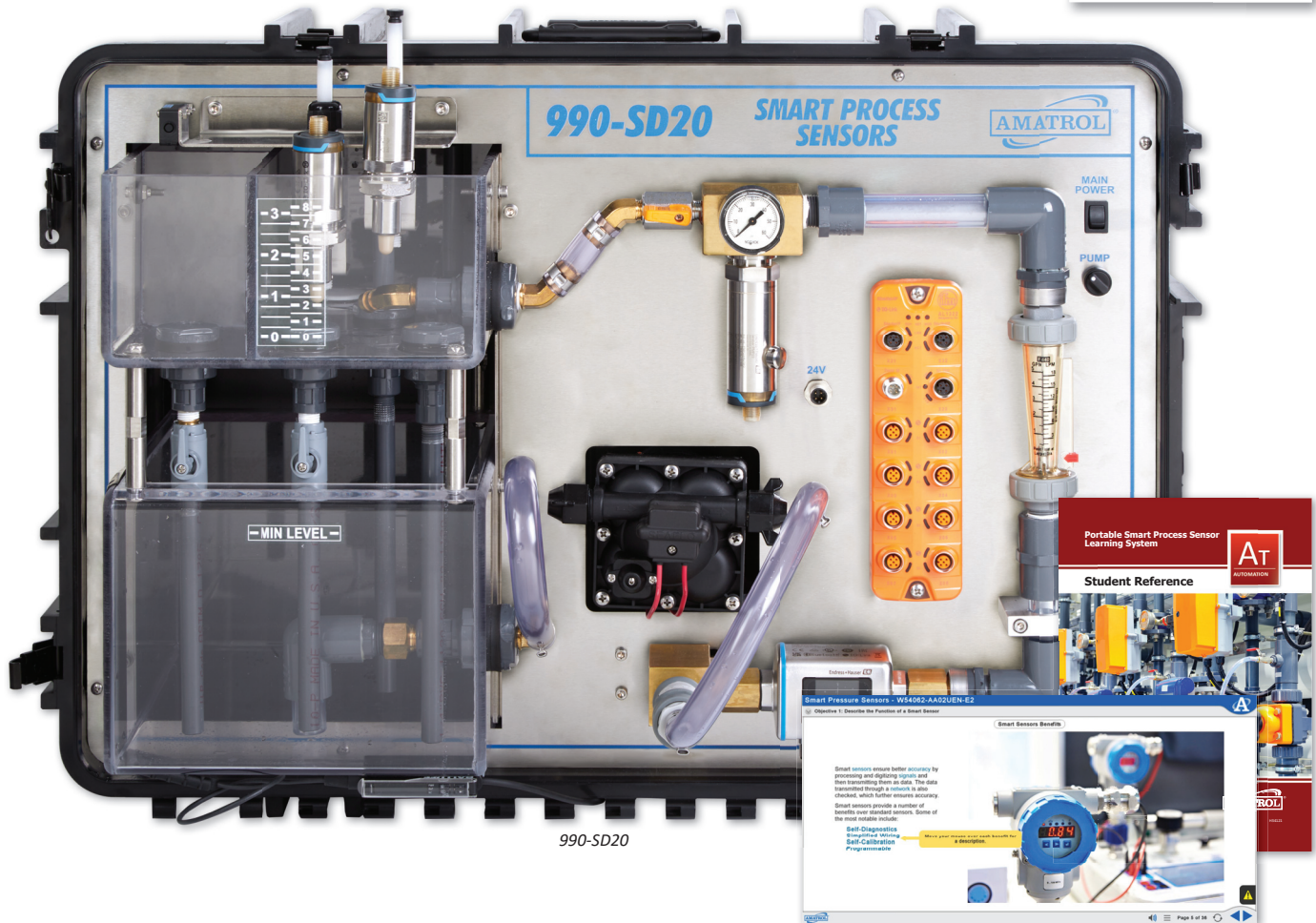


# Portable Smart Process Sensor Learning System

990-SD20



990-SD20

Interactive Multimedia eLearning Curriculum and Student Reference Guide

## Learning Topics:

- Industrial Internet of Things (IIoT)
- Cloud Computing
- Edge and Fog Computing
- Function & Operation of an IO-Link Master
- IO-Link PC Software
- Smart Analog Pressure Sensors
- Smart Electromagnetic Flow Sensors
- Smart Ultrasonic Level Sensors
- Smart Point Level Sensors
- IO-Link Bluetooth Applications

Amatrol's Portable Smart Process Sensor Learning System (990-SD20) teaches the operation and function of a variety of smart process sensors, including smart analog pressure sensors, smart electromagnetic flow sensors, smart ultrasonic level sensors, and smart point level sensors. Students will also gain an understanding of the Industrial Internet of Things (IIoT) and cloud computing.

This portable system provides hands-on experience with real-world components, including an IO-Link Master, smart sensor PC software, and applications for analog flow, analog level, and hi/lo level sensing. Students will study industry-relevant applications and learn hands-on skills that will build a strong foundation for a successful career in a variety of industries that use advanced process control technologies.



## Technical Data

Complete technical specifications available upon request.

Portable Console  
IO-Link Master  
IO-Link Cable Kit  
Smart Sensor PC Software  
Manual Operator Control and Power Distribution  
Applications for Analog Flow, Analog Level, and  
Hi/Lo Level Sensing  
Power Cord  
Push-to-Connect Drain Line  
Multimedia Curriculum (M34121)  
Instructor's Guide (C34121)  
Installation Guide (D34121)  
Student Reference Guide (H34121)

### Additional Requirements:

Distilled Water (Customer-Supplied)  
Computer with Ethernet Connection (Visit [www.amatrol.com/support/](http://www.amatrol.com/support/) for details.)

### Utilities:

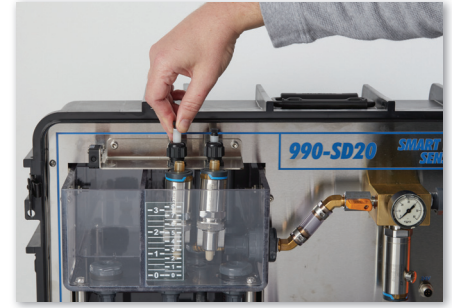
Electricity: 100-240 VAC, 50-60 Hz, 1 phase

### Recommended:

Mobile Technology Workstation (82-610) or  
Equivalent

## Gain Advanced Knowledge of IIoT Applications of Smart Sensors in Process Control

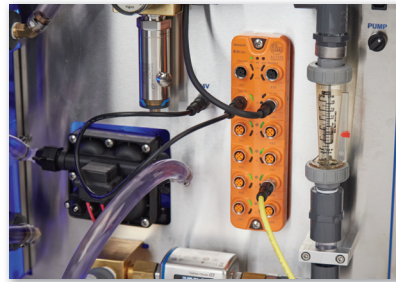
The Industrial Internet of Things (IIoT) and cloud computing are transforming how industries are monitoring and controlling processes to increase productivity and efficiency. The 990-SD20 curriculum teaches learners about the history of IIoT and how it is being implemented via a variety of advanced technologies in industrial settings, especially those involving process control applications. Students will also learn about cloud computing, edge and fog computing, data analytics, and smart sensors. The 990-SD20's convenient portable console will allow students to learn about the operation and function of smart pressure and level/flow sensors in process control.



Hands-On Skill Building with Smart Sensors

## Develop Hands-On Skills with Real Industrial Components

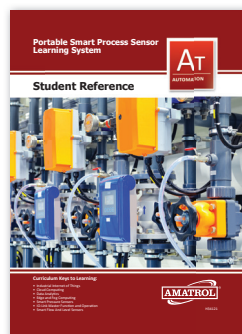
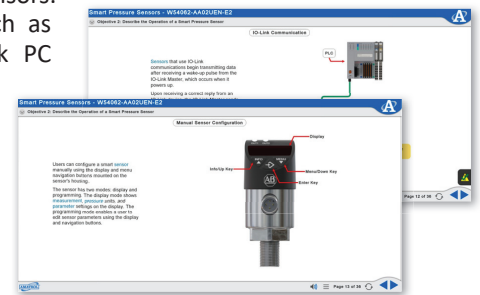
In addition to teaching students about IIoT and cloud computing, the 990-SD20 provides students with invaluable hands-on experience with real-world industrial components they'll encounter on the job, such as: an IO-Link Master, smart sensor PC software, and applications for analog flow, analog level, and hi/lo level sensing. Students will learn to master smart process sensor skills, including: configuring and testing a smart analog pressure sensor using IO-Link software; configuring and testing a smart point level sensor; and configuring and testing smart sensors using an IO-Link Bluetooth application.



Work with Real Industrial Components

## In-Depth, Interactive Multimedia eLearning Curriculum

Amatrol's in-depth, interactive multimedia eLearning curriculum teaches a wide range of smart process sensor concepts and skills. After an introduction to the Industrial Internet of Things (IIoT) and cloud computing, students will gain valuable knowledge related to advanced smart pressure and level/flow sensors. Students will also learn hands-on skills, such as configuring an IO-Link Master using IO-Link PC software; configuring and testing a smart analog pressure sensor using IO-Link software; and configuring and testing a smart ultrasonic level sensor. Amatrol's eLearning curriculum features a highly-interactive, multimedia format that includes stunning 3D graphics and videos, voiceovers of all text, and interactive quizzes and exercises.



## Smart Sensor Student Reference Guide

A sample copy of the Portable Smart Process Sensor Learning System Student Reference Guide is included with the system for your evaluation. Sourced from the system's curriculum, the Student Reference Guide takes the entire course's technical content contained in the learning objectives and combines them into a perfectly-bound book. Student Reference Guides supplement this course by providing condensed, inexpensive reference tools that students will find invaluable once they finish their training, making them the perfect course takeaways.

