

# Smart Factory Sensor 1 Siemens S7-1500, Pneumatics / Vacuum | Multimedia Courseware

**Smart Vacuum Sensors - W33747-AA01XEN-E1**

Objective 3: Describe How to Configure a Smart Pressure/Vacuum Sensor

I...

TIA Portal

IO-Link devices, such as smart vacuum sensors, must be added to PLC projects and configured to allocate PLC memory for the data exchange.

Device configuration settings are downloaded to the PLC with the PLC's program and sent to devices such as smart sensors at power up.

IO-Link devices, including smart sensors, are configured using TIA Portal's S7-PCT (Port Configuration Tool) software tool, which uses special files called IO-Link Device Description (IODD) files.

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## eLearning Course: M33747

This systems teaches Profinet (Siemens) network communications between a pneumatic / vacuum pressure sensor and other smart automation devices in a Smart Factory environment to efficiently. Learners will study: smart sensor function; smart ultrasonic sensor operation and configuration; and smart ultrasonic sensor in a PLC project operation.

Amatrol's [Smart Factory](#) eLearning courses feature real-world scenarios that learners will encounter on the job, including smart pressure sensors. The systems combine hands-on skills practice with in-depth multimedia curriculum for a well-rounded learning experience that will prepare learners to make an immediate impact in the technologically-advanced Smart Factory environments of the present and future.

## Teach Hands-On Skills

### Practice on Real-World Equipment Using Smart Factory Components

Using Amatrol's Smart Factory training systems, students learn essential skills using industrial-quality equipment they'll use in the workplace. For example, learners will gain valuable knowledge of either an 4-channel Profinet/IP communications switch (Siemens). Using this courseware, learners will gain an understanding of the function, operation, and configuration of a smart pressure sensor in a Smart Factory setting.

### Learn Industry-Applicable Smart Analog Pressure Sensor Skills

With Amatrol's comprehensive curriculum, students cover essential smart pressure sensor skills. For example, learners will study the operation of a smart pressure sensor in a PLC project. Additional skills include designing and operating a Smart Factory PLC project that uses a smart analog pressure sensor.

## Multimedia

## Engaging, Highly-Interactive Multimedia

Amatrol's curriculum features a highly-interactive, multimedia format that includes stunning 3D graphics and videos, voiceovers of all text, and interactive quizzes and exercises designed to appeal to learners with different learning styles. The combination of theoretical knowledge and hands-on skills solidifies understanding and creates a strong basis for pursuing more advanced skills.

### Additional Info

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#### Requires:

- Computer [\(see Computer Requirements\)](#)
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#### Address

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