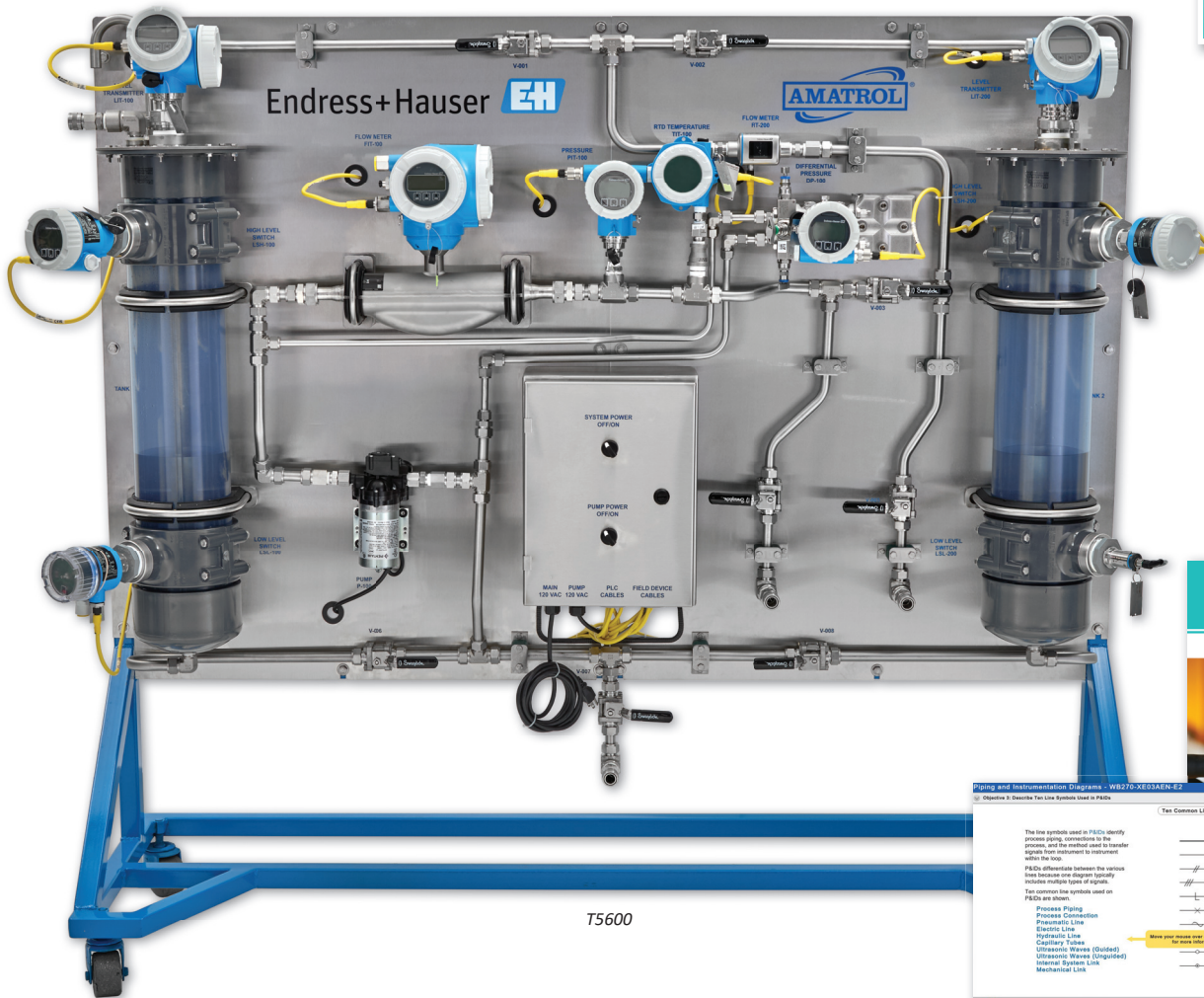


Process Instrumentation Learning System

T5600

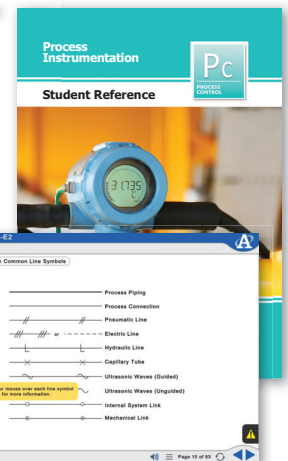
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PROCESS CONTROL



T5600

Student Reference Guide



Interactive Multimedia Curriculum

Learning Topics:

- Process Control Operation Safety
- Process Documentation
- Level Measurement with Micropilot Free Space Radar Level Transmitter
- Level Measurement with Levelflex Guided Wave Radar Level Transmitter
- Transmitter Communications
- Level Detection with Liquiphant Point Level Vibronic Switch
- Pressure Measurement with Cerabar Single-Ended Pressure Transmitter
- Pressure Measurement with Deltabar Differential Pressure Transmitter
- Temperature Measurement with iTEMP® TH13 RTD Temperature Sensor with HART Transmitter
- Flow Measurement with Promass Coriolis Flow Meter and a Picomag Magnetic Flow Meter
- Ethernet Communications

Amatrol's Process Instrumentation Learning System features a wide variety of Endress+Hauser components to provide advanced instrumentation training. For example, the workstation includes: a Promass Coriolis Flow Meter; a Picomag Magnetic Flow Meter; a Micropilot Free Space Radar Level Transmitter; a Levelflex Guided Wave Radar Level Transmitter; Liquiphant Point Level Vibronic Switches; a Cerabar Single-Ended Pressure Transmitter; a Deltabar Differential Pressure Transmitter; an iTEMP® TH13 RTD Temperature Sensor with HART Transmitter; two tanks; and a pump.

The Process Instrumentation Learning System includes Amatrol curriculum that begins with the basics of process control safety and documentation before moving on to 32 hands-on skills related to flow, level, temperature, and pressure measurement and detection, as well as HART and Ethernet communications. Users will learn how to commission the devices; configure settings via local display, SmartBlue App using Bluetooth, and PC using DeviceCare software; and interpret diagnostic messages and indicators.



Gain Hands-On Skills with a Wide Variety of Endress + Hauser Components, including:



Micropilot Free Space Radar Level Transmitter

- Uses "Free Space" Radar (Open Beam)
- Level Measurement
- Continuous
- Contactless



Levelflex Guided Wave Radar Level Transmitter

- Uses "Guided Wave" Radar (Tube)
- Level Measurement
- Continuous
- Contactless
- Interface Measurement



Liquiphant Point Level Vibronic Switches

- Uses Vibration for Level Measurement
- No Moving Parts
- Continuous
- Contactless



Cerabar Single-Ended Pressure Transmitter

- Single Point Pressure Measurement
- No Moving Parts
- Continuous
- Various Liquids



Deltabar Differential Pressure Transmitter

- 2 Points/Differential Pressure Measurement
- No Moving Parts
- Continuous
- Liquids, Vapors, & Gases



iTEMP® RTD Temperature Sensor with HART Transmitter

- Industry Standard
- Robust & Accurate



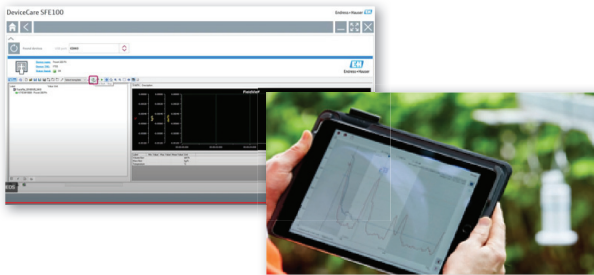
Promass Coriolis Flow Meter

- Coriolis Measurement
- Liquid or Gas
- Multivariable Measurement: Mass Flow (Inertia & Density), Volume Flow, Density, Temperature, & Viscosity



Picomag Magnetic Flow Meter

- Multivariable Measurement: Flow, Temperature, and Conductivity
- Space-Saving Design Ideal for Measurement of Conductive Liquids
- Wireless Remote Access via Bluetooth SmartBlue App



HART & Ethernet Communications

The Process Instrumentation Learning System teaches users a variety of hands-on skills related to transmitter communications, including configuring settings via HART communications using a PC with Endress + Hauser's DeviceCare software; Bluetooth using Endress + Hauser's SmartBlue application for tablets and smartphones; and a web server via Ethernet port and wireless LAN.

Multimedia Student Curriculum with 32 Hands-On Skills

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 T5600 curriculum starts with the basics of process control safety and documentation before moving on to 32 hands-on skills related to flow, level, temperature, and pressure measurement and detection, as well as HART and Ethernet communications. The combination of theoretical knowledge and hands-on skills solidifies understanding and creates a strong basis for pursuing more advanced skills.

