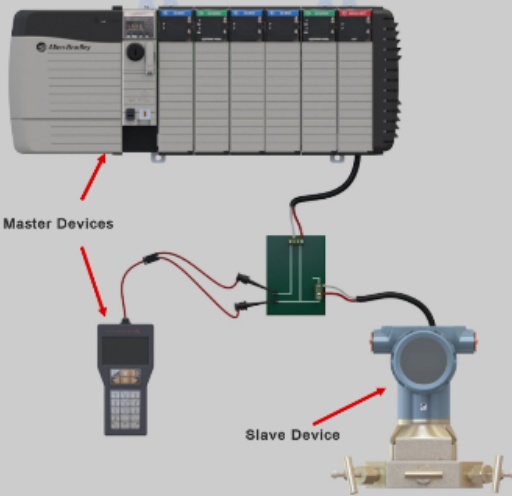


HART Process Control 1 | eLearning Course

HART Protocol - W33334-CA01XEN-E1

Objective 3: Describe the Components of a HART Network and Give an Application

HART Device Types



The diagram illustrates a HART network setup. At the top is a rack-mounted controller with multiple slots. Below it, a handheld communicator (HHC) is connected to the network. A slave device, which is a valve actuator, is also connected to the network. Red arrows point from the controller to the HHC and from the HHC to the slave device. A central green circuit board is connected to both the HHC and the slave device.

HART control loops operate as a master/slave network.

Masters are computers or handheld communicators (HHCs) that have control over other devices on the network.

Slave devices are field devices on the network that respond to protocol commands from a master device. Slave devices only transmit when commanded by a master.

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eLearning Course: M33334

HART (Highway Addressable Remote Transducer) technology enables both analog and digital data from smart sensors to be simultaneously transmitted back to a process controller. In Amatrol's HART Process Control 1 (M33334) eLearning course, users will learn HART protocol and software.

Teach HART Technology

Network Components & Methods

Amatrol's HART Process Control 1 (M33334) eLearning course teaches learners about HART protocol fundamentals. Through interactive diagrams and animations, learners will build knowledge and understanding of master and slave devices, point-to-point and multidrop networks, implementation and wiring of a HART process control system, and network configurations for optimal data transmission.

Software Controls

HART software is also covered in this course, and screenshots of HART's user interface are provided to illustrate where learners will find different settings and commands. Specific topics discussed include selecting ranked variables, remote re-ranging and monitoring, loop integrity testing, device modes, and more.

Interactive eLearning

Anytime, Anywhere Access Promotes Self-Paced Learning

In today's fast-paced, technology-driven world, it's more important than ever to extend the reach of industrial skill training beyond the borders of traditional classrooms. Amatrol's [eLearning](#) meets the challenge for flexibility by offering in-depth, comprehensive technical skills training via an intuitive, easy-to-use web-based Learning Management System (LMS).

With anytime, anywhere online access, Amatrol's eLearning allows learners to set their own pace at home, on the job, in a traditional class setting, or a blended approach of these options.

Additional Info

Requires:

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

Options:

- HART Process Control Learning System ([T5552-H1](#))
-

Address

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