Amatrol’s Portable PLC Troubleshooting Learning System – Siemens S7-1200 (990-PS712F) provides a mobile option for teaching both basic and advanced applications as well as sophisticated troubleshooting using the powerful Siemens S7-1200 PLC. Programming, operating, and troubleshooting skills on modern PLC systems are vital for future professionals. Amatrol’s 990-PS712F provides a highly interactive system that integrates an HMI panel, networking, and a variety of programming commands in order to simulate real-world processes.

Inside this attractive, durable carrying case, learners will find a world-class learning system with components like the KTP 600 Human Machine Interface (HMI) panel, which allows user input and displays output data. Combined with Amatrol’s thorough curriculum, learners will gain both theoretical and hands-on knowledge that can start them on a path towards a rewarding career.
PLC Fault Troubleshooting

Within the 990-PS712F, Amatrol offers FaultPro 4.0, the industry’s premier program utilizing electronic faults, and covers topics such as how to troubleshoot PLC power supply problems, how to test analog and discrete input devices, and how to solve software problems. Amatrol offers thorough, world-class curriculum that covers methods of system troubleshooting, types of PLC component tests, and step-by-step processes. FaultPro allows instructors to instantly set and tailor faults to test a learner’s weaknesses and turn them into strengths. The electronic faults also protect the equipment from incurring any damage.

PLC Curriculum and Skills: Basics to Motion Control

In addition to world-class troubleshooting skills, the 990-PS712F offers all of the skills and applications available on the 990-PS712, including:

- Analog Temperature Application
- Thermostatic Temperature Application
- Variable Speed Motor Control Application
- Reversing Motor Starter Application
- Stepper Motor Control Application

The 990 offers skills such as: configuring the IP address of an S7-1200 PLC; downloading and running a PLC project that performs logic operations; and entering and operating a PLC project that uses seal-in logic to control a motor.

Human Machine Interface (HMI)

HMI panels replace or compliment traditional hard-wired control panels by integrating operator input control and output display information. On the 990-PS712, learners will use a KTP600 HMI, which features a display screen and six tactile function keys. Learners will study basic operation skills, such as downloading a project and connecting the HMI to an ethernet network, before moving to more advanced skills, like using WinCC software to create and configure project screens and configuring an I/O Field object as an input and an output.

Portable Workstation

The 990-PS712F is a mobile training platform that can deliver training at multiple facilities. The 990 features a portable case with wheels and a handle for easy transport. The cover is quickly removed to enable the case to sit firmly upright on a table surface. The cover also locks so the workstation can be safely stored when not in use.