PLC AND HMI TRAINING BRIEFCASE

Hytech Didactics' Briefcase PLC and HMI Training Kit is equipped with state-of-the-art products from Siemens S7 1200-1215 PLC and KTP 400 HMI.

The powerful combination of PLC and HMI can help students acquire hands-on experience with industrial control equipment. Realistic examples are used to motivate students. Know how about Real time Industrial PLC applications, necessary programming and operating skills are vital for future professionals in variety of industries. The briefcase based training system is convenient, portable, and provides hands on experience on integration, networking, PLC operation and programming as well as HMI operation and programming.

The briefcase is made out of extremely heavy duty industrial hard protective case with wheels and an extendable trolley.

Combined with detailed programs (PLC ladder and HMI Screens), participants can gain much needed technical expertise with this portable training kit required for their future careers in automation industry.

Hytech Didactics' portable PLC and HMI Training Kit features most of the commonly used industrial automation modules from basic level to expert level. Real world industrial automation modules that enhance the learning experience where students can see their programs controlling the real world automation solutions. The industrial automation modules include Pneumatic solenoid valves, Pneumatic cylinders with magnetic reed switches, DC Motor with external encoder, various types of sensors, switchgear components and digital displays.
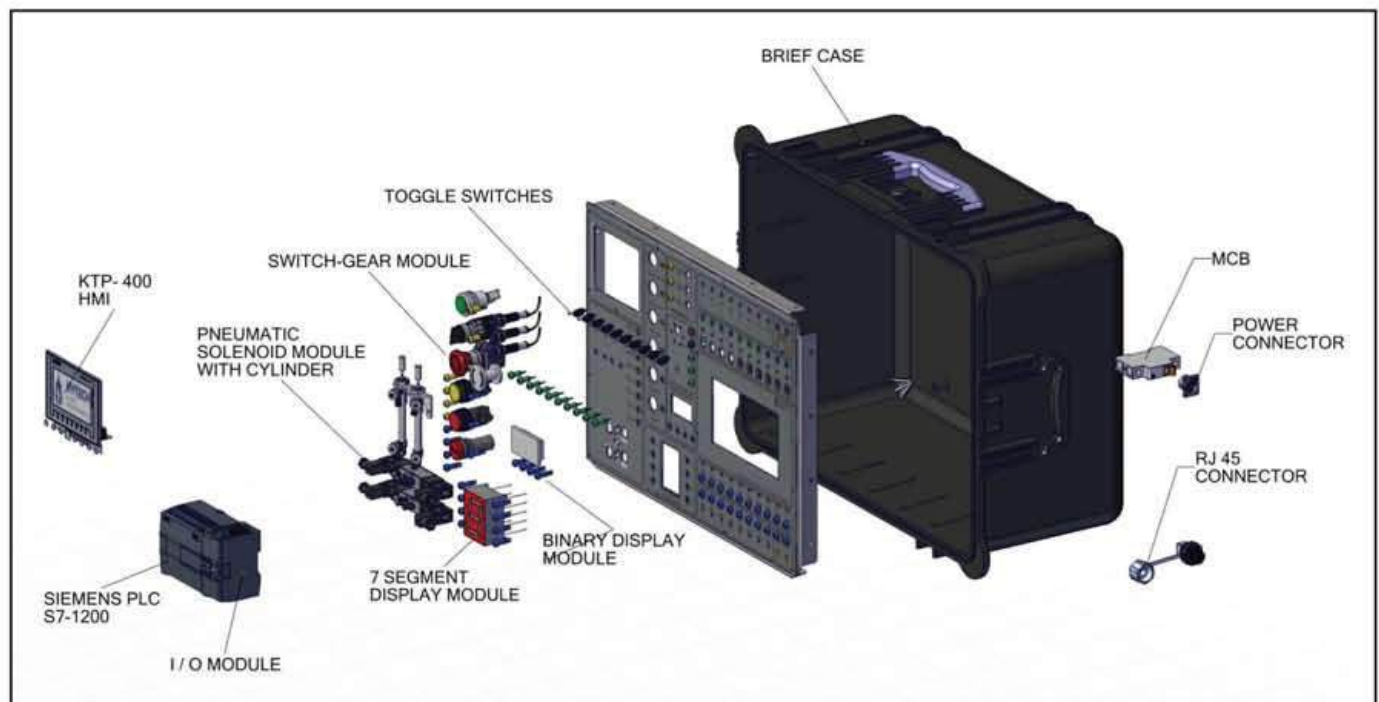
Features and Benefits

- The system uses latest Industrial Siemens software and hardware that is being used in industries
- Comprehensive curriculum with practical examples are accompanied with each system
- The system is mounted in a rugged suitcase with casters and trolley
- The system can be used individually or in conjunction with existing PLC applications
- The briefcase can be communicated easily with laptops / computer systems
- All components are mounted in one rugged case, which is perfect for transportation and storage. The comprehensive curriculum allows efficient teaching. The System is compatible with numerous industrial applications. The briefcase is equipped with an RJ 45 connector, 4 PIN industrial power connector as well as 6mm Pneumatic tube connector which truly makes it portable.

Topic Coverage

- Introduction and Familiarization with Siemens (TIA) Totally Integrated Automation Portal
- Understanding PLC operation and addressing
- PLC programming in four different IEC 61131 languages: Ladder Logic, Sequential Function Chart, Function Block, and Structured Text
- Designing human-machine interfaces (HMI)
- Logic Troubleshooting
- Establishing communication, developing a PLC program (Logic), and transferring of projects to PLC and HMI

Hytech Didactic Briefcase Plc Hmi

Overall Dimensions	647mm x 495mm x 312mm
Approximate Gross Weight	21 KG
PLC	Siemens S7 1200 - 1215C
HMI	Siemens KTP 400 Basic
Outside connections on briefcase	RJ45 / Ethernet port
	Pneumatic air connection
	4 Pin Industrial power connection (IP 68)
Inputs	22 Digital Inputs
	2 Analog Inputs
Outputs	18 Digital Outputs
	2 Analog Outputs
Toggle Switches (Input Override)	10
Feather Touch Switches (Input Override)	8
LED Indicators (Output Status)	18
Automation Modules	Pneumatic Solenoid module with pneumatic cylinders and magnetic reed switches
	DC Geared motor with external encoder
	7 Segment display module
	Binary Display module
	Sensor Module
	Switchgear Module

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