



TECHNICAL DATA SHEET

Siemens S7-1200 G2 PLC Training System

Overview

The Rising Edge Automation Siemens S7-1200 G2 Training System is a premium desktop training platform designed to develop practical PLC programming, HMI development and industrial automation skills using genuine Siemens industrial hardware.

Built around the latest Siemens SIMATIC S7-1200 G2 controller and MTP700 Unified HMI, the system provides learners with hands-on experience of the same technologies used throughout modern manufacturing, process control and machine automation.

Designed specifically for colleges, universities, apprenticeship providers and industrial training programmes, the system combines professional engineering hardware with a compact, portable enclosure suitable for classroom and workshop environments.

Key Features

- Genuine Siemens industrial hardware
- Latest SIMATIC S7-1200 G2 controller
- MTP700 Unified multi-touch HMI
- Integrated industrial Ethernet networking
- Industrial safety relay
- Digital and analogue I/O
- Desktop portable enclosure

Typical Applications

- Colleges & Universities
- Apprenticeship Training
- Employer Skills Development
- PLC Programming Courses
- Maintenance Training
- Controls Engineering
- Industrial Automation Education

Technical Specifications

Parameter	Specification
Control System	
PLC	Siemens SIMATIC S7-1200 G2 CPU 1214C DC/DC/DC
Analogue Expansion	Siemens SB1231 4-Channel Analogue Input
HMI	Siemens SIMATIC MTP700 Unified
Safety Relay	PILZ PNOZ S3
Network Switch	Industrial 5-Port Ethernet Switch
Operator Devices	
Pushbuttons (Black, Red, Blue, Green)	4
Selector Switch	1
Emergency Stop	1
Potentiometer	1
Indicator Lamps (Yellow, Red, Blue, Green)	4
Communications	
PLC Network	PROFINET
Programming Port	Front RJ45 Ethernet
USB Service Port	Front USB-C
Ethernet Switch	Integrated 5-Port Industrial Switch
Electrical	
Supply Voltage	24 VDC
External Power Supply	100–240 VAC to 24 VDC
Maximum Output	72 W
Rated Output Current	3 A

Environmental	
Operating Temperature	0°C to +50°C
Storage Temperature	−20°C to +60°C
Relative Humidity	Maximum 90% RH (non-condensing)
Installation	Indoor use only
Mechanical Construction	
Enclosure	Custom fabricated steel enclosure
Finish	Matte black powder-coated
Mounting	Desktop portable
Internal Construction	Industrial DIN rail assembly
Wiring	Professionally terminated industrial control wiring
Software Compatibility	
Engineering Software	Siemens TIA Portal, STEP 7 Basic, WinCC Unified Engineering