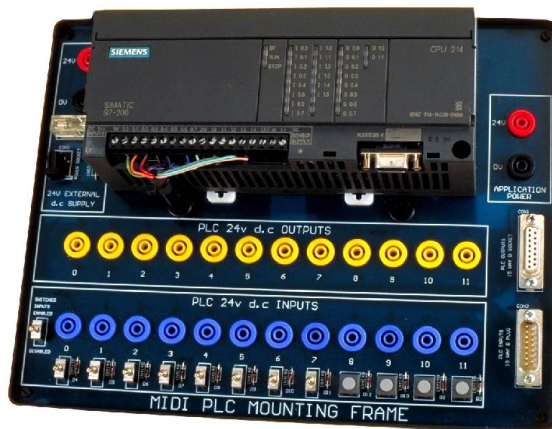## PLCS5F – Siemens S7-200 PLC

Picture is a representation and PLC fitted may vary

Key Features:

- 24V dc digital I/O
- Enables students to test and debug control programs
- Colour coded 4mm terminals
- Easy connection to application via 'D' connectors
- Built-in EEPROM memory
- Switched inputs
- 14 dc Inputs 10 digital transistor Outputs

The PLCS5F is a Siemens S7-200 on a mounting frame with easy connections and test switches. The Simatic S7-200 family of programmable controllers are a compact and powerful micro PLC solution for automation tasks. The S7-200 communication port connects to a PC allowing the CPU to be programmed using Siemens software.

All inputs and outputs are accessed via 'D' type connectors or 4mm sockets, and there are connections provided for 12 inputs and 12 outputs. The 'D' type connectors also allow easy connection to other devices with connecting cables. This feature eliminates the need for students to wire the device to the PLC each time reducing wear to the PLC and potential damage. The mounting frame also includes switched inputs that allow the PLC control programs to be developed 'stand alone' the process can be simulated using the switched inputs. Simulation of inputs is provided by both toggle and momentary switches.

Specification	
I/O Capabilities	14 x 24V dc inputs 10 x transistor digital outputs
Power Supply Voltage	24V
Load Voltage	Lower Limit: 20.4V Upper Limit: 28.8V
Input Current	Max including load: 12A at 28.8V
Max Power Consumption	110 – 700mA
Operating Temperature	0°C to 55°C
Operating Humidity	5 to 95%
Input Specifications	Input Type: 24V DC For signal "0": 5V dc For signal "1": 15V dc Potential Separation: 6 and 8
Digital Output Specifications	Output Type: Transistor Output Voltage for '1' signal: 20V dc Potential Separation: Optocoupler in groups of 5. Maximum Output Current for '1' signal: 750mA Minimum Output Current for '0' signal: 10µA Maximum Delay 0 to 1: 15µs Maximum Delay 1 to 0: 130µs Switching Capacity for Resistive load: 0.75A Switching Capacity for Lamp: 5W

Memory Size and Type	12KB program memory and 8KB data memory.
Programming Language	LAD, FBD, STL
Counter	256
	of these retentive: 256 with battery
	Counting Range: 0 to 32767
Timers	256
	of these retentive: 64 with battery
	Range: 4 timers @ 1ms to 30s
	16 timers @ 10ms to 5 minutes
	236 timers @ 100ms to 54 minutes
Communications Port	RS485
Dimensions	120.5 x 80 x 62mm

Mounting Frame (MF1)

Mounting Frame Type	PCB Mounted in a durable plastic box
Connectors	15 pin 'D' socket for outputs, 15 pin 'D' plug for inputs
	4mm terminals
Input Switches	6 x toggle
	4 x momentary push
Power Supply	24V DC fused
Dimensions	290 x 230 x 90mm

Ordering Information

Model Number:	**PLCS5F**
Consists of:	1 x Siemens S7-200 CPU222 mounted on
	1 x Pre-wired PCB Mounting Frame
	1 x Development Plug
	1 x User Manual

Notes.
1. ***Specification is subject to change without notice.***
2. ***All dimensions are in mm unless otherwise stated***
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