

PLCS4F – 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
- 8 dc Inputs 6 digital transistor Outputs

The Bytronic PLCS4F is a mounting frame and PLC combination based around a Siemens S7-200. The Simatic S7-200 family of programmable controllers are a compact and powerful micro PLC solution for automation tasks. They are also easily expandable with various digital and analogue modules available. The S7-200 communication port connects to a PC allowing the CPU to be programmed using Siemens STEP7 Micro/WIN32 software. The mounting frame gives easy access to the PLCs I/O capabilities providing an effective means for the student to test and debug their program prior to connecting to the application.

All inputs and outputs are accessed via 'D' type connectors or 4mm sockets, and there are connections provided for 8 inputs and 6 outputs. The 'D' type connectors also allow easy connection to other Bytronic products. The mounting frame also includes switched inputs that allow the PLC control programs to be developed 'stand alone' i.e. the process can be simulated using the switched inputs.

Specification	
I/O Capabilities	8 x 24V dc inputs 6 x transistor digital outputs
Power Supply Voltage	20.4-28.8V dc
Load Voltage	Lower Limit: 20.4V Upper Limit: 28.8V
Input Current	Max including load: 10A at 28.8V
Max Power Consumption	85 – 500mA
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: Optocoupler in groups of 4.
Digital Output Specifications	Output Type: Transistor Minimum Output Voltage for '1' signal: 20V dc Potential Separation: Optocoupler in groups of 6. Maximum Output Current for '1' signal: 750mA Minimum Output Current for '0' signal: 10µA Maximum On Delay: 15µs Maximum Off Delay: 100µs Switching Capacity for Resistive load: 0.75A Switching Capacity for Lamp: 5W

Memory Size and Type	4KB program memory and 2KB 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	90 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:	PLCS4F
<i>Consists of:</i>	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*

Bytronic Ltd., reserves the right to make product improvements at any time and without notice and is not responsible for typographical errors. Bytronic Ltd., recognise all product names used herein as trademarks or registered trademarks of their respective holders.

Bytronic Limited
124 Anglesey Court, Towers Business Park,
Rugeley, Staffordshire, WS15 1UL.
United Kingdom
Tel; +44 (0)3456 123 155 Fax; +44 (0)3456 123 156
Email: sales@bytronic.net Website: www.bytronic.net