PCS1200 PROGRAMMABLE LOGIC CONTROLLER

All-in-One Compact PLC

Chitic's programmable logic controller PCS1200 is packed with analog and digital I/O in a compact package. Its powerful processor provides fast I/O handling and logic control. It is a market-proved advanced product and widely used in various industrial process automation and machinery in water treatment, petrochemical, power station, heating, metallurgy, etc. PCS1200 is able to increase the reliability, system stability and performance, minimizing the need for human operators and the chances of human error.

Product Features

High-Speed CPU

A single command can be executed in 0.1us, can deal with complicated logic and complex process control loops.

High Flexibilities

A single CPU module can be combined with up to 10 extension modules, and along with both RS232 and RS485 interface.

Support Multiple Standard Interfaces.

Able to communicate with various kinds of devices with protocols like Modbus, Profibus, Ethernet, GPRS, etc.

Cover both Digital and Analog I/O Acquisition

It can process embedded PID loops and control logics.

Easy to Assembly and Replace

Awesome industrial design, removable terminal blocks, can be assembled and replaced easily with DIN rail.

Best PLC for Small Process Automation Applications

CPU

PCS1200 comes in five different controller modules, CPU SC1105, CPU SC1106, CPU SC1107, CPU SC1107A, CPU SC1107N and CPU SC1701. It is easily to fit different equipment requirements that adding digital or analog I/Os to the controller modules without affecting its physical size. Each CPU can easily expand ten digital or analog I/O modules. Signal modules can be connected to the CPU to further expand the digital or analog I/O capacity.

Figure	Model	I/O parameters	Power	COM interface	COM protocol
120*80*63 (mm)	SC1105	8 DI * 24VDC, 8 DO * relay	220VAC	1 RS232, 1 RS485	Modbus-RTU; free
	SC1106	14 DI * DC24V, 10 DO * transistor	24VDC	1 RS232, 1 RS485	Modbus-RTU; free
	SC1107	14 DI * DC24V, 10 DO * relay	220VAC	1 RS232, 1 RS485	Modbus-RTU; free
	SC1107A	10 DI * DC24V, 8 DO * relay; 2 AI, 1 AO (0~10V/ 0~20mA, 1% accuracy)	220VAC	1 RS232, 1 RS485	Modbus-RTU; free
	SC1107N	10 DI * DC24V, 6 DO * relay	220VAC	1 RS232, 2 RS485, 1 ETHERNET port (RJ45)	Serial-interface Modbus-RTU, free; Modbus-TCP, 4- server connection

DI/DO Modules

Up to four DI/DO modules can be connected to the right side of CPU for the support of additional digital I/Os.

Figure	Model	Description	Signal Type
	SC1211	16 DI module	Active contact (24VDC)
	SC1221	16 resistor output module	Resistor (24VDC)

72*80*63 (mm)	SC1223	16 relay output module	Relay
	SC1231	8 DI/ 8 relay output module	Input: active contact (24VDC); output: relay

AI/AO Modules

Up to eight AI/AO modules can be connected to the right side of CPU for the support of additional analog I/Os.

Figure	Model	Description	Signal Type
72*80*63 (mm)	SC1310	4 AI module (differential input)	4~20mA, 0~20mA, 0~10V
	SC1311	4 TC input module	J、K、T、N、E、R、S、B
	SC1312	4 RTD input module	Cu50, Pt100
	SC1313	8 AI module (single-ended input)	4~20mA, 0~20mA, 0~10V
	SC1314	8 thermistor input module	Thermistor (NTC), R25°C: 10K, B value can be selected
	SC1320	2 AO module	0~20mA, 0~10V
	SC1321	4 AO module	0～20mA
	SC1330	4 AI/ 1 AO module (single-ended input)	0~10V, 4~20mA, 0~20mA

Communication Modules

PCS1200 is an open system supporting Modbus, Profitbus, ETHERNET, GPRS and other protocols.

Figure	Model	Description	COM interface
72*80*63 (mm)	SC1400	Multi-protocol communication module	1 ETHERNET, 1 RS232/RS485, 2 RS485
	SC1401	Profitbus-DP slave module	1 Profitbus-DP
	SC1403	ETHERNET module	1 ETHERNET (RJ45)
	SC1404	RS485-serial-interface module	Terminals

The RS485 and RS232 communication modules provide connection for performing point-to-point serial communication. With open protocols, the Ethernet interface supports communication with third-party devices.

Support CODESYS Software

Chitic PCS1200 industry control software is the Windows-based integrated development environment (IDE) for PCS1200. It provides you with highest efficient in engineering.

Configuration Software

With powerful functions, the engineering software can easily perform customers' automation tasks such as hardware configuration, programming and system diagnosis. The programming languages are LD, FBD, IL, ST, SFC and CFC, which are compliant with IEC61131-3 standard.

CODESYS Software Advantages

- Standardization
- Open, reconfigurable and modularized architecture platform
- Strong transferability and powerful network communication capability
- Powerful motion control and CNC function
- Convenient to support third-party development tools and application software
- Supporting customized development of safety control and safety controller in accordance with SIL3 international standard
- CODESYS application composer is designed as an application programming oriented software
- Excellent encryption features