

Differences between SR series and PR Ethernet series

(1) Input and output:

a) SR series has 12-point and 22-point series, and the power supply supports DC12~24V/AC24V, AC110~240V. PR Ethernet series has 12-point, 18-point, and 26-point series, and the power supply supports DC12~24V, AC110~240V.

b) PR Ethernet series PLCs usually have more analog channels, and some analog input channels also support both voltage and current analog input channels, such as I7-I8 of PR-18N and ID-IG of PR-26N.

c) The SR series does not have high-speed counting input/output channels. The PR Ethernet series DC models usually have 4 high-speed counting inputs, and the transistor output supports high-speed PWM.

(2) Communication interface:

a) SR series does not have programming port COM0, SR-12 series does not have built-in RS485 interface, SR-22 series has 1 built-in RS485 interface.

PR Ethernet series have programming port COM0 and built-in RS485 interface. PR-12N, 18N have 1 built-in RS485 interface, PR26N has 2 built-in RS485 interfaces.

Both SR series and PR Ethernet series can be connected to the SR-RS485 expansion module to add one RS485 channel.

b) Both the SR series and PR Ethernet series have RJ45 interfaces and support Ethernet. The SR series only supports 2-way TCP connections, while the PR Ethernet series supports 8-way TCP connections.

(3) Program capacity

SR series: 25KB

PR Ethernet Series: 64KB

The SR series supports 256 FBD, the PR-12N supports 512 FBD, and the PR18N and 26N support 1024 FBD.

(4) Expansion Capability

The SR series supports connecting up to 3 SR-E series modules.

The PR series supports connecting up to 16 PR-E series modules.

(5) Programming language

Both SR series and PR Ethernet series support FBD and Ladder. However, PR Ethernet series also supports C language subroutines in ladder programming, while SR series does not support this.

(6) LCD display panel/buttons

The SR-B series (model suffix -B) does not have an LCD panel and keys. The other SR series models and the PR Ethernet series have an LCD panel and keys.

(7) Protocol:

Both the SR series and PR Ethernet series support Modbus RTU, Modbus TCP/IP, and can be used as Modbus master or Modbus slave.

The PR Ethernet series also supports MQTT, BACnet MSTP, and BACnet IP, which are not supported by the SR series.

(8) Others:

a) PR Ethernet series PLC has built-in data logger SD socket.

b) PR Ethernet series PLC runs FBD and ladder dual systems. You can directly download the FBD programming software and ladder programming software programs without the need to convert the programming language. The SR series requires using the firmware update package to complete the programming language mode switch.