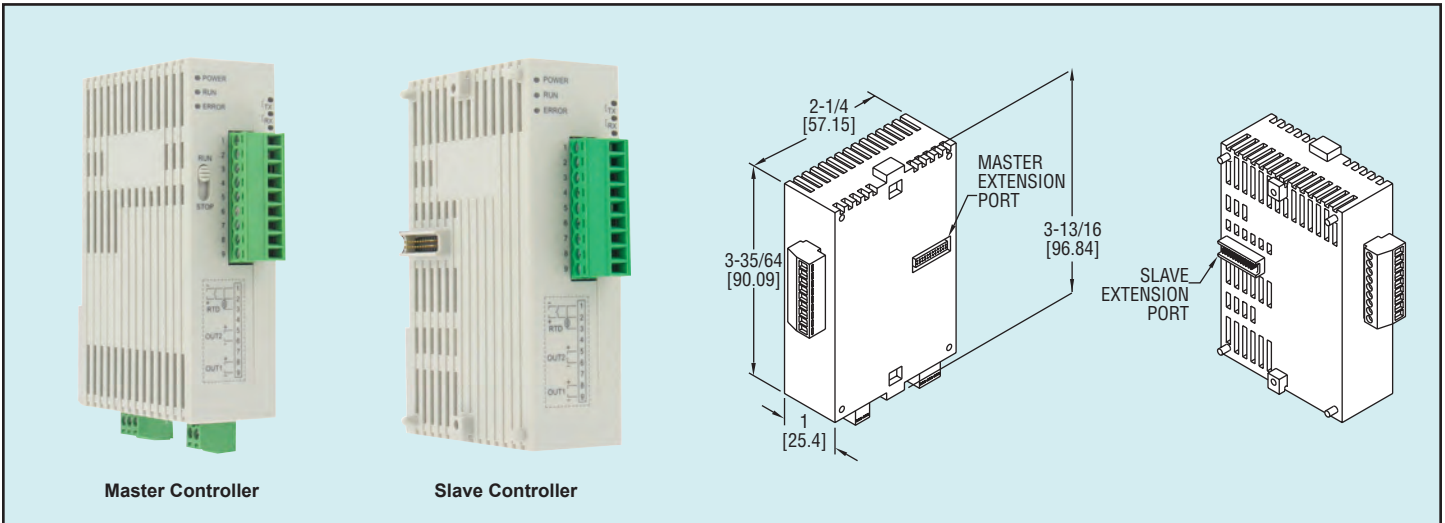




Series
SCD

DIN Rail Temperature/ Process Controller

Universal Inputs, Up to 8 PID Loops, Modbus® Communications



The DIN Rail Mount Series SCD offers multiple PID loops in a compact size. Each SCD-1000 master controller can be combined with up to seven SCD-2000 slave controllers without any wires. Each controller has one universal input, one relay output and one user selected output. The outputs can be used for a dual loop to control heating and cooling or a single loop with an alarm. These controllers support up to 64 ramp/soak actions. The SCD series controllers are programmed using a user-friendly software program via the RS-485 Modbus® communications.

SPECIFICATIONS

Inputs: Thermocouple, RTD, DC linear voltage, and DC currents.

Supply Voltage: 24 VDC.

Power Consumption: 3 W.

Operating Temperature: 32 to 122°F (0 to 50°C).

Memory Backup: Non-volatile.

Control Output Ratings:

Relay: Resistive load @ 250 VAC 3 A;

Voltage pulse: 12 VDC, max. output current: 40 mA;

Current: 4 to 20 mA output;

Linear voltage: 0 to 10 VDC.

Communication: RS-485 Modbus® A-5-11/RTU communication protocol.

Weight: 2.7 oz (76.5 g).

Agency Approvals: CE, RoHS, cUL, UL.

Input Types	Range
Type K T/C	-328 to 2372°F (-200 to 1300°C)
Type J T/C	-148 to 2192°F (-100 to 1200°C)
Type T T/C	-328 to 752°F (-200 to 400°C)
Type E T/C	32 to 1112°F (0 to 600°C)
Type W T/C	-328 to 2372°F (-200 to 1300°C)
Type R T/C	32 to 3092°F (0 to 1700°C)
Type S T/C	32 to 3092°F (0 to 1700°C)
Type B T/C	212 to 3272°F (100 to 1800°C)
Type L T/C	-328 to 3272°F (-200 to 850°C)
Type U T/C	-328 to 932°F (-200 to 500°C)
Pt 100 RTD	-328 to 1112°F (-200 to 600°C)
0-50 mV	-999 to 9999
0-10 V	-999 to 9999
0-20 mA*	-999 to 9999
4-20 mA*	-999 to 9999

*Requires 250 Ohm Precision Resistor.

Model	Controller	Output 1	Output 2
SCD-1023	Master	Voltage Pulse	Relay
SCD-1033	Master	Relay	Relay
SCD-1053	Master	Current	Relay
SCD-1063	Master	Linear Voltage	Relay
SCD-2023	Slave	Voltage Pulse	Relay
SCD-2033	Slave	Relay	Relay
SCD-2053	Slave	Current	Relay
SCD-2063	Slave	Linear Voltage	Relay

ACCESSORIES

SCD-PS, 100 to 240 VAC/VDC to 24 VDC Power Supply

SCD-SW, Configuration Software

A-277, 250 Ohm Precision Resistor

MN-1, Mini-Node™ USB/RS-485 converter

A-600, R/C snubber

TEMPERATURE

Temperature/Process
Controllers

Modbus® is a registered trademark of Schneider Automation, Inc.