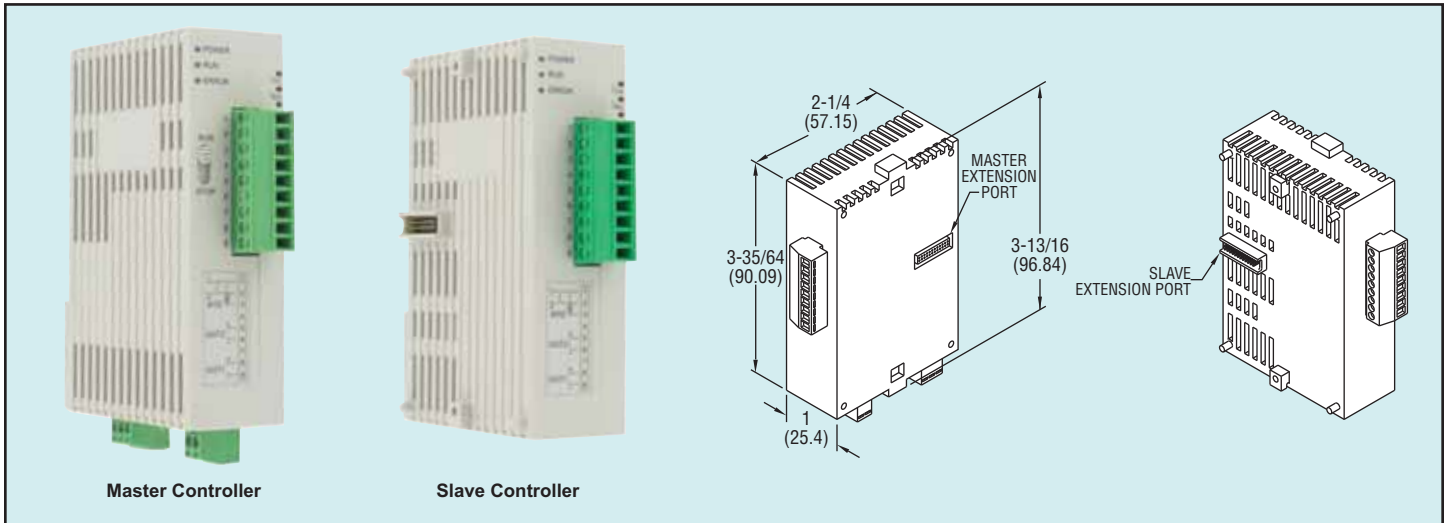




Series
SCD

DIN Rail Temperature/ Process Controller

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



Temperature

The DIN Rail Mount Series SCD offers multiple PID loops in a compact size. Each SCD1000 master controller can be combined with up to seven SCD2000 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: 4-20 mA output;

Linear Voltage: 0 - 10 VDC.

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

Weight: 2.7 oz (76.5 g).

Agency Approvals: CE, UL, cUL.

Input Types	Ranges
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, 24 VDC Power Supply

SCD-SW, Configuration Software

A-277, 250 Ohm Precision Resistor

MN-1, Mini-Node™ USB/RS-485 converter

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