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.

FEATURES/BENEFITS
• Expandable from 1 to 8 process control loops
• Universal transmitter or temperature sensor inputs
• RS-485 Modbus® communication
• Universal Inputs, Up to 8 PID Loops, Modbus® Communications
• Digital Temperature Switch Probes and Accessories: See page 138 (Series TS-Probes)

APPLICATIONS
• Intelligent Defrost parameters manage defrost cycle in order to save energy cost
• Real-time clock used for HACCP logging of temperature limit alarms or loss of power
• 3 temperature probe inputs
• Memory Backup: Non-volatile.

FEATURES/BENEFITS
• RS-485 Modbus® communication
• Universal transmitter or temperature sensor inputs
• Memory Backup: Non-volatile
• Agency Approvals: CE, RoHS, cULus.

SPECIFICATIONS
Inputs: Thermocouple, RTD, DC linear voltage, and DC currents.*
Power Supply: 24 VDC.
Power Consumption: 3 W.
Operating Temperature: 32 to 122°F (0 to 50°C).
Memory Backup: Non-volatile.
Control Output Ratings: Relay: 3 A @ 250 VAC resistive; Voltage pulse: 12 VDC, max. output current: 40 mA; Current: 4 to 20 mA output; Linear voltage: 0 to 10 VDC.
Agency Approvals: CE, RoHS, cULus.

SERIES TSDIN
DIN RAIL MOUNT TEMPERATURE SWITCH
HACCP Alarm Logging, Intelligent Defrost

The SERIES TSDIN DIN Rail Mount Temperature Switch is ideally designed to control compressor, defrost, and fan cycles in refrigeration applications. The digital input can be used to remotely trigger a defrost cycle, monitor cooler door status, or act as an external alarm. Three other probe inputs measure cabinet, defrost, and product temperature. Programming performed on the 6 button keypad or with the Model TS2-K configuration key.

FEATURES/BENEFITS
• 3 temperature probe inputs
• Real-time clock used for HACCP logging of temperature limit alarms or loss of power
• Intelligent Defrost parameters manage defrost cycle in order to save energy cost

APPLICATIONS
• Refrigerated cabinets
• Walk-in coolers
• Applications requiring defrost cycles

SPECIFICATIONS
Probe Range: PTC: -58 to 302°F (-50 to 150°C); NTC: -58 to 230°F (-50 to 110°C).
Input: PTC/NTC.
Output: Output 1: SPST relay rated 16A @ 240 VAC resistive, 10 FLA, 60 LRA, 1HP @ 240 VAC inductive; Output 2: SPDT relay rated 8A @ 240 VAC resistive; Output 3: SPST relay rated 8A @ 240 VAC resistive; Output 4: SPDT relay rated 8A @ 240 VAC resistive; Output 5: SPST relay rated 8A @ 240 VAC resistive, 10 FLA, 60 LRA, 1HP @ 240 VAC inductive.
Control Type: On/off.

POWER REQUIREMENTS
Power Requirement: 115 VAC, 230 VAC, 12 VAC/DC, 24 VAC/DC (±10% depending on model).
Power Consumption: 6 VA.
Accuracy: Better than 1% of full-scale.
Display: 3-digits plus sign.
Resolution: 0.1.
Memory Backup: Non-volatile memory.
Temperature Limits: Operating: 32 to 131°F (0 to 55°C); Storage: -4 to 176°F (-20 to 80°C).
Weight: 10.8 oz (306 g).
Agency Approvals: CE, cULus.

ACCESSORIES
See page reference below.

DIGITAL TEMPERATURE SWITCH PROBES AND ACCESSORIES: See page 138 (Series TS-Probes)