



Supra 16-stage control

Powerful, versatile, and cost-effective

The Supra automatically monitors and controls the temperature in up to four separate zones by operating ventilation equipment such as fans, heaters, inlet actuators, or curtain machines.

The Supra is ideal for poultry, livestock, greenhouse, or light-industrial buildings and is compatible with any ventilation strategy: natural, forced, tunnel, and chimney ventilation.

The easy-to-use keypad and menu system make it easy to program the control. The four-line, backlit LCD display shows current and past environmental conditions, as well as any alert conditions.

Variable DC signal output

The Supra's variable DC signal output allows you to connect the optional **DC Expansion Kit (K210050)**. The expansion kit allows you to connect equipment that requires a 0 to 10 V input, such as variable frequency drives. The kit installs in seconds and has four outputs you can configure for cooling or heating. Each output has its own settings and functions the same as the Supra's other variable stages.

Expandable capacity using slave units

The optional **Single-Phase Slave (PSU-20)** is an affordable way to increase the current capacity of the Supra. Slaves are easy to install and there is no additional configuration required; all slave units follow the settings of the master Supra. Each unit increases the current capacity of the stage by 20 A.

Humidity monitoring and control

Supra's humidity control ability allows you to connect a Phason **Relative Humidity Sensor** and adjust ventilation during high humidity. When humidity levels are high (you define the upper and lower limits), the Supra automatically adjusts the ventilation equipment to help lower the humidity.

Water usage monitoring

Water usage monitoring has never been easier. Supra allows you to connect a water meter with pulse output and monitor water usage in your building. The status display shows daily water usage in liters or gallons and the input log stores this information so you can view it anytime. It's that easy.

Other available accessories—enhance your Supra

- ◆ Convenient accessories such as the **SupraSaver** and **Intaglio** allow you to store and transfer your Supra settings and configuration and update the firmware version of your Supras.
- ◆ Using the **SupraWare** software, you can connect up to 32 Supras together and monitor and configure them from a central computer.

Features

- ◆ Four variable stages (heat or cool) with overload protection fuses
- ◆ Twelve relay stages (heat, cool, timed event, duty cycle, or actuator control)
- ◆ Variable DC signal output
- ◆ One alarm relay (for external alarm siren or alarm system)
- ◆ Four-zone temperature monitoring and control
- ◆ Outdoor temperature monitoring ability
- ◆ Adjustable temperature settings, including two configurable seven-step growth curves
- ◆ Temperature setback for day/night temperature (DIF) control
- ◆ Water usage monitoring ability
- ◆ Humidity monitoring and control ability
- ◆ Startup timer for distributing backup generator initial startup load
- ◆ Customizable alarm settings
- ◆ Three-second full-power-turn-on for minimizing fan ice-up
- ◆ Data logging of temperatures, alarms, relay “on” durations, and setting changes
- ◆ Power-failure memory protection, including internal 24-hour clock
- ◆ Five-level PIN security system
- ◆ Four-line, backlit LCD display
- ◆ On-board diagnostics and self tests
- ◆ Thirty-foot temperature probe, extendable to 500 feet (additional probes available)
- ◆ Rugged enclosure (corrosion resistant, water resistant, and fire retardant)
- ◆ CSA approval
- ◆ Two-year limited warranty

Electrical ratings

- ◆ Input power 120/230 VAC, 50/60 Hz
- ◆ Fuse 1 A, 250 VAC non-time-delay glass
- ◆ Variable stages 10 A at 120/230 VAC, general-purpose (resistive)
7 FLA at 120/230 VAC, PSC motor □
1/2 HP at 120 VAC, 1 HP at 230 VAC, PSC motor
- ◆ Variable stage fuses 15 A, 250 VAC ABC-type ceramic
- ◆ Relays 10 A at 120/230 VAC, general-purpose (resistive)
1/3 HP at 120 VAC, 1/2 HP at 230 VAC
360 W tungsten at 120 VAC
- ◆ Alarm relay 0.4 A at 125 VAC; 2 A at 30 VDC, resistive load
0.2 A at 125 VAC; 1 A at 30 VDC, inductive load