

## Supra 16-Stage Control

Model: SUPRA-RS

### Reliability, versatility, and value in one complete control

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

### Humidity monitoring and control

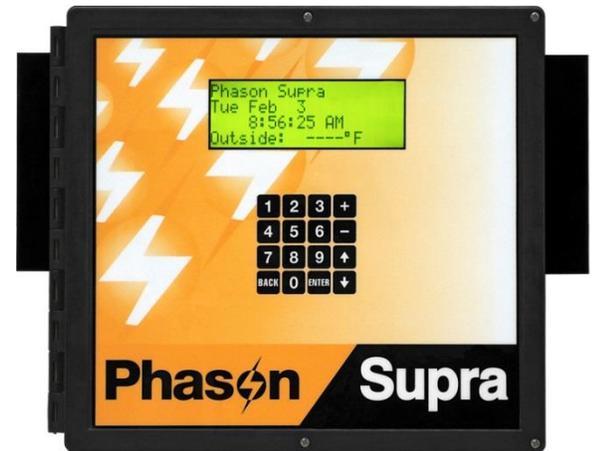
Optional humidity control ability allows you to connect a Relative Humidity Sensor and adjust ventilation during high humidity.

### Water usage monitoring

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 litres or gallons.

### Temperature setback / DIF control

Temperature setback (also called different method or DIF) allows you to automatically change the temperature set point for a specific period of time during the day. For example, you can maintain different day/night temperatures.



## Features

- Adjustable temperature set points, range: 14 to 110°F (-10 to 43°C)
- Two configurable seven-step growth curves
- Temperature setback for day/night temperature (DIF) control
- Four variable stages (heat or cool) with overload protection fuses
- Twelve pluggable general-purpose relays (heat, cool, timed event, duty cycle, or actuator control)
- Variable DC signal output (for optional 0-10 VDC **Expansion Kit** or **Slave Units**)
- One alarm relay (for external alarm siren or alarm system)
- Four-zone temperature monitoring and control
- Outdoor temperature monitoring ability
- Water usage monitoring
- 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 settings protection, including internal 24-hour clock
- Five-level PIN security system
- Four-line, backlit LCD display, 4.75 inches wide x 1.6 inches high
- On-board diagnostics and self-tests
- Temperature probe; 30 feet, extendable to 500 feet (additional probes available)
- NEMA 4X enclosure (corrosion resistant, water resistant, and fire retardant)
- CSA approval
- Limited warranty (2 years)

## Electrical ratings

- **Incoming power** 120/230 VAC, 50/60 Hz
- **Control 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
- **General-purpose 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, 2.0 A at 30 VDC, resistive load  
0.2 A at 125 VAC, 1.0 A at 30 VDC, inductive load



## Accessories

### FanDRIVES

FanDRIVES expand the capacity of your control system by taking the 0 to 10 VDC signal from the control and adjusting fan speed. No additional programming is required; FanDRIVES follow the programming of the master control. A 2x 7 FLA model (**FD-2-7**) and a 1x 14 FLA (**FD-1-14**) are available.

### Single-Phase Slave

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

### Manual Override Box

The Manual Override Box (**model MOB-4**) increases the load handling capability of your control's relays and provides an external disconnect. The MOB-4 includes four 240 V power contactor relays with AUTO-OFF-MANUAL switches and snubber filters.

## Additional information

For more information about the Supra, accessories, or other Phason products, contact your dealer or visit [www.phason.ca](http://www.phason.ca).

### Temperature probes

Additional Temperature probes allow you to use 4-zone temperature averaging. Probes are available several lengths and can be extended up to 500 feet using extension cable.

### Relative humidity sensors

Relative Humidity Sensors allow you to monitor humidity at the control (**model RHS**), or up to 100 feet away (**model RHS-P**).

### Supra Saver

The Supra Saver is an innovative and easy-to-use product that allows you to store all your Supra configuration and settings. You can restore them at any time, or use the Saver to set up new controls in seconds.

### Supra Updater

The Supra Updater allows you to upgrade the firmware of Supra controls. The Supra Updater takes only seconds to use and can upgrade all Supra controls at your site.