

# Solaira<sup>o</sup> SMaRT Control Series

ENGINEER AND ARCHITECT SPECIFICATION

## Solaira SMaRT 16A – Dual Voltage Variable Control



Optional wireless remote

### Digital Variable Control

Adjust up to 16 amps of heater output to desired level

3.2kW @ 208 – 240V or 1.6kW @ 110 – 120V

### Soft Start Technology

Engineered feature extends emitter life by up to 30%

### Water Resistant Enclosure

For Outdoor or Indoor Applications with on-board control

### Temperature Monitoring (Optional)

Built in user settable temperature sensor

### Wireless Handheld Remote (Optional)

### Occupancy Monitoring (Optional)

Solaira SMaRT 16-Dual Voltage Variable Controller is part of a family of water-resistant Solaira SMaRT controllers designed to provide energy savings when used with infrared heaters or other heating and lighting products. The Solaira SMaRT 16-Dual Voltage Variable Controller has a 1 to 10 step setting allowing you to find the optimum comfort setting in your specific area. With energy saving a major factor in the design, the feature rich Solaira SMaRT 16-Dual Voltage can automatically manage the heating system.

The microcontroller-based unit incorporates zero-voltage switching and a soft-start function to eliminate the heaters initial high inrush current, potentially increasing heater emitter life by as much as 30%. Installation of the unit is simple and once installed our solid-state controller is relatively maintenance-free.

#### Temperature Monitoring (optional)

The controller can be equipped with an optional temperature sensor that monitors the temperature and inhibits the heaters when the temperature exceeds a pre-determined set point of between 41°F (5°C) to 77°F (25°C). The controller can also be fitted with an optional remote location temperature sensor if the controller is in a different area then the heater location.

#### Occupancy Monitoring (optional)

If you want to have the heaters turn on and off automatically based on people in the space, the controller can also be fitted with an optional remote Occupancy Monitor. When the controller is equipped with the optional Occupancy Monitor, the heaters are switched on for a user-settable time period of between 5 and 60 minutes.

#### Remote Controlled (optional)

An optional remote control allows for the ultimate convenience.

#### **Why Invest in Quality Solaira SMaRT Controls.....**

The thought of the heaters being left on is a constant concern for business operators regardless of your installation. The Solaira SMaRT Series Controller was designed to minimize this concern and ensure your guests are kept warm and not the furniture when no one is there. With maximizing comfort and minimizing energy consumption, the Solaira SMaRT 16-Dual Voltage Variable Controller allows you to concentrate on your business and entertaining and not on whether the heaters are still switched on?

The Solaira SMaRT 16-Dual Voltage Variable Controller has been engineered to allow the user to vary the output of the heaters for the ideal comfort level. With the temperature monitoring feature and the addition of an optional remote control or occupancy monitor, the user can manage a comfortable environment and ensure energy is not wasted while money is being saved.

| PART#      | MAX LOAD  | MAX LOAD | VOLTAGE  | HEATING CONFIGURATION   |
|------------|-----------|----------|----------|---|
| SMaRT16-DV | 16 Ampere | 3.2kW    | 208-240V | - 2 X 1.5kW or 1.6 kW, 208/240<br>- 1 X 3.0kW or 3.2 kW, 208/240<br>- 1 X 2.0 kW, 208/240 |
|            | 16 Ampere | 1.6kW    | 110-120V | - 1 X 1.5kW or 1.6 kW, 110/120V   |

**TECHNICAL SPECIFICATION**

**Voltage**

**Electrician Selectable Dual Voltage**  
208 - 240Vac or 110 – 120V, 50/60 Hz  
Factory Setting: 208 – 240V

**Max Wattage**

3.2 kW total @208-240V, 1.6kW total @ 110/120V

**Max Ampere**

16 A

**Temperature on/off set point**

41°F (5°C) to 77°F (25°C)

**Factory set on/off point**

70°F (20°C)

**Enclosure**

Surface Mounted, heat sink at rear

**Enclosure operating temperature range:**

-4°F (-20°C) to 104°F (40°C)

**Enclosure Material/ Protection Rating**

UL94 certified enclosure, IP65 Water Proof for outdoor/indoor use

**Dimensions**

7-7/8" X 4-1/2" X 2-1/2" (200 X 110 X 60 mm)

**Inspection**

cETL SPE-1000 (CAN)

**Wireless Handheld Remote (optional)**

**Range**

Part # SMRTVRMT

30' (6 Meters)

**Occupancy Monitoring Sensor (optional)**

**Operating Voltage**

**Detect angle and range**

Part # SMRTVOCC

12V dc

90° Adjustable up to 50' (18 Meters)

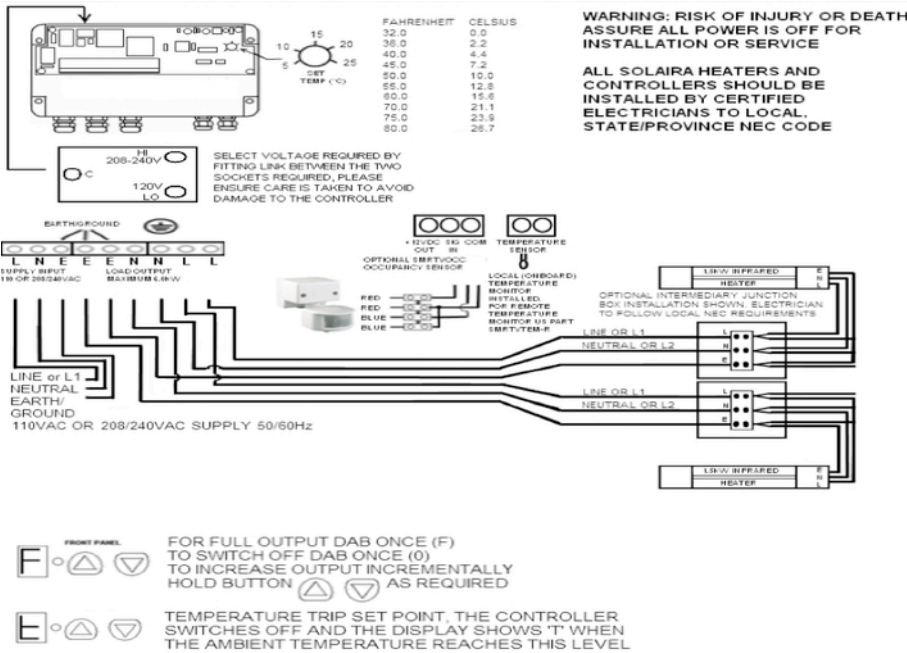
**Outdoor Remote Location Temperature Sensor (optional)**

**Dimensions**

Part # SMRTVTEMR

4-5/8" X 4-3/8" X 2-1/8" (115 X 110 X 55 mm)

**Warning: No other controls are to be utilized with this controller other than outlined on this specification sheet**



Connection Diagram is for illustrative purposes only. Determination of suitability, specification and installation remains the responsibility of a certified electrician in complying with local, state/provincial and N.E.C. codes and requirements

**SOLAIRA SMaRT16-DV VARIABLE CONTROL**

JOB NAME \_\_\_\_\_ JOB LOCATION \_\_\_\_\_  
 ARCHITECT \_\_\_\_\_ ENGINEER \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_ SUBMITTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 ITEM SPEC \_\_\_\_\_ add options \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ QTY \_\_\_\_\_

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