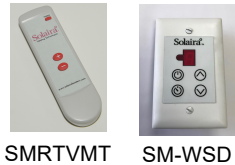
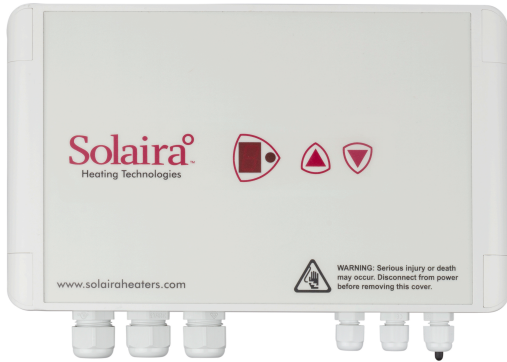


# SMaRT Control Series

ENGINEER AND ARCHITECT SPECIFICATION

## Solaira SMaRT 16A - Dual Voltage, Variable Control



### Digital Variable Control

Adjust up to 16 amps of heater output to desired level  
3200W @ 208 – 240V or 1600W @ 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, IP65 Rated

### Optional Accessories

Wall Switch (SM-WSD)

Handheld IR Remote (SMRTVMT)

Remote Temperature Monitor (SMRTVTEM-R)

Occupancy Monitor (SMRTOCC)

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 10 step setting allowing you to find the optimum comfort setting in you specific area. With energy saving a major factor in the design, the feature rich Solaira SMaRT 16-Dual Voltage can automatically manage your 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.

#### Handheld Remote and Wall Switch (optional)

An optional handheld remote that communicates via IR to either the SMaRT Controller or optional Wall Switch (SM-WSB) for the ultimate convenience. The Wall Switch can also operate without the remote with its on-board push buttons.

#### Temperature Monitoring (optional)

The controller can be equipped with an optional temperature sensor that monitors the temperature of the desired zone and inhibits the heaters when the temperature exceeds a pre-determined set point of between 41°F (5°C) to 77°F (25°C).

#### 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.

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

The thought of the heaters being left on is a constant concern for business operators and home owners alike 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.

**NOTE: SMART16-DV (120V OR 240V DUAL VOLTAGE) SUPEREDES SMaRT32240 (240V ONLY SINGLE VOLTAGE)**

PART#	MAX LOAD	MAX LOAD	VOLTAGE	HEATING CONFIGURATION
SMaRT16-DV	16 Ampere	3200W	208-240V	Up to 2 X 1500W or 1600W, 208/240 Up to X 3000W or 3200W, 208/240 Up to X 2000W, 208/240
	16 Ampere	1600W	110-120V	Up to X 1500W or 1600W, 110/120V

**TECHNICAL SPECIFICATION**

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

**Factory Setting:** 208 – 240V

**Max Wattage:** 3200W total @208-240V, 1600W 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 Resistant for outdoor/indoor use

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

**Certification:** cETL SPE-1000, CE

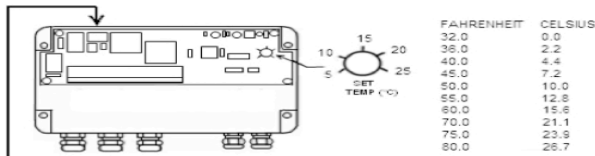
**Range**  
30' (6 Meters)

Optional Accessories:

**Operating Voltage**      **Detect angle and range**  
12V dc                              90° Adjustable up to 50' (18 Meters)

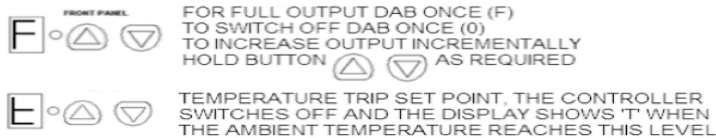
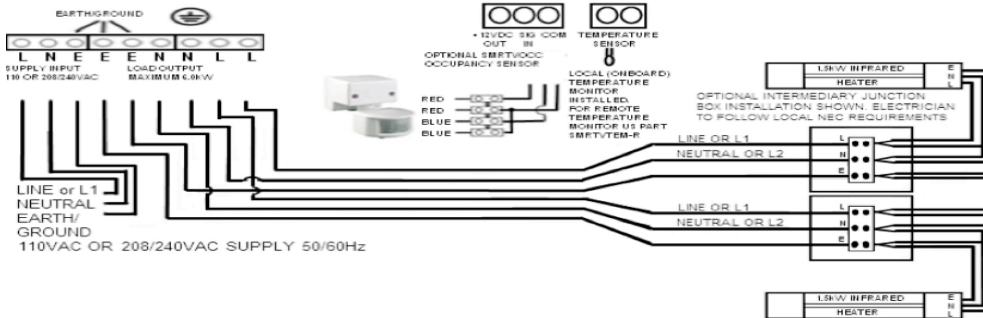
**Wall Switch:** SM-WSD  
**Wireless Handheld Remote:** SMRTVRMT  
**Occupancy Monitoring Sensor:** SMRTVOCC  
**Remote Temperature Sensor:** SMRTVTEMP

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



**WARNING: RISK OF INJURY OR DEATH**  
**ASSURE ALL POWER IS OFF FOR**  
**INSTALLATION OR SERVICE**

**ALL SOLAIRA HEATERS AND**  
**CONTROLLERS SHOULD BE**  
**INSTALLED BY CERTIFIED**  
**ELECTRICIANS TO LOCAL**  
**STATE/PROVINCE NEC CODE**



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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