

# SAS816WHB-0 Thermostat for radiant heating

SAS816WHB-0 is a non-programmable thermostat designed to control either heat only or cool only system.

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## SPECIFICATION:

Power source ..... 2AA alkaline batteries  
Load current ..... 250VAC 8A  
Ambient temperature-operation.....0°C(32°F)–50°C(122°F)  
Ambient temperature-transport.....10°C(14°F)–60 °C(140°F)  
Accuracy..... ±1°C or ±1°F  
Dimensions..... 86mm× 86mm× 32mm  
Color..... White

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## FEATURE:

- LCD display shows room temperature
- Optional economic operation or comfort operation
- Optional temperature display of Celsius or Fahrenheit scale

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## MOUNTING AND WIRING DIAGRAM

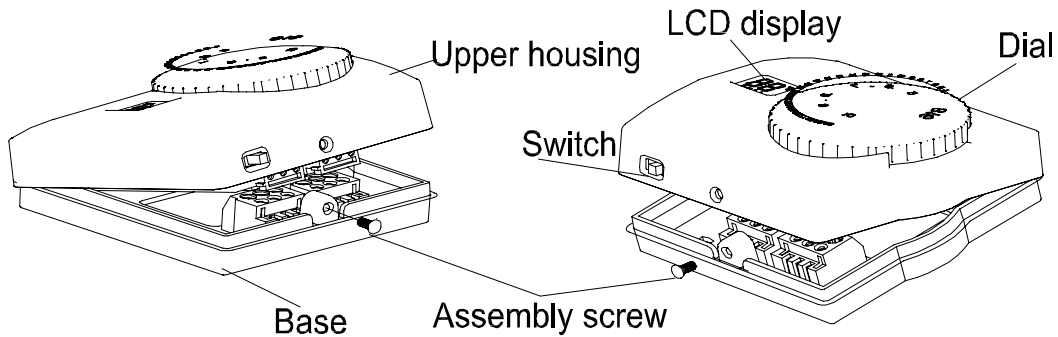


Figure 1

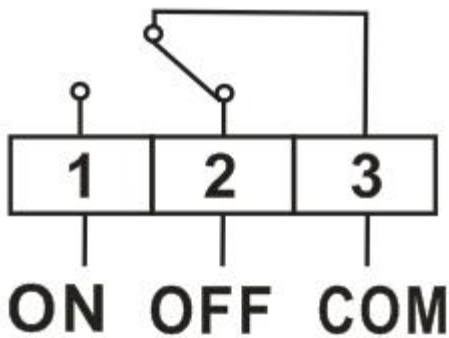


Figure 2

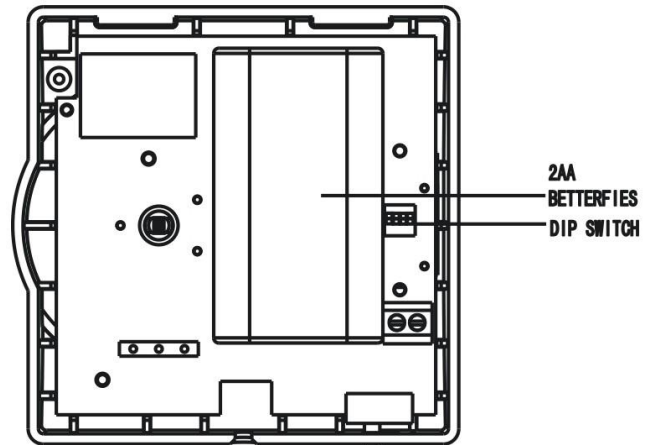


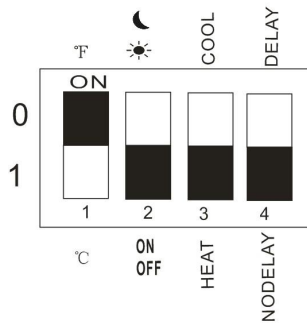
Figure 3

1. Remove assembly screws from the base of thermostat. Gently pull the upper housing straight off the base. Forcing or prying on the thermostat will cause damage to the unit. See figure 1.
2. Connect wires beneath terminal screws on the base using appropriate wiring schematic. See figure 2
3. Install two fresh “AA” alkaline batteries in battery compartment. Be sure to match positive (+) ends of batteries with positive (+) battery terminals in the battery compartment. See figure 3
4. Push power base into wall.
5. Using mounting screws mount the power base to the wall. Place a level against bottom of base, adjust until level, and then tighten screws. (Leveling is for appearance only and will not affect thermostat operation.)
6. Replace the upper housing on the base and fix the upper housing by removed assembly screw

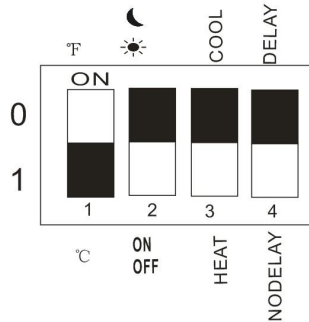
### CONFIGURATION DIL SWITCH SETTINGS

Slide the DIL switches to the settings required (see Figure 3)

#### Heating selection



#### Cooling selection



#### Both heating and Cooling selection


##### Select °C and °F readout

Set the switch to °C, temperature in the display will be shown in °C readout.

Set the switch to °F, temperature in the display will be shown in °F readout.


##### **Switch function option**


ON/OFF – Switch at the lower side of the thermostat used as ON/OFF switch

Setting the switch at  thermostat is switched on.

Setting the switch at  thermostat is switched off.

NSB – Switch at the lower side of the thermostat used as NSB switch

Setting the switch at  thermostat is on comfort mode.

Setting the switch at  thermostat is on Night set back mode.

#### Compressor delay option for cooling selection

Setting the Dil switch at NO DELAY, compressor delay function is canceled.

Setting the Dil switch at 5 MIN DELAY, compressor will have 5 minutes off-time protection.

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## USERS INSTRUCTIONS

### Display

The LCD displays actual room temperature until the setting dial is moved.

### Setting the temperature

Turn setting dial to required temperature. The selected temperature will **flash** in the LCD to signify it is showing the **set temperature**

After a short period the display stops flashing and shows **actual room temperature**.

### Thermostat status (heating mode only)

A flame symbol will be lit whenever the thermostat is calling for heat

### Thermostat status (cooling mode only)

A snowflake symbol will be lit whenever the thermostat is calling for cooling. If this is seen to flash, the thermostat output is delayed for a short period to prevent compressor damage.

### Low battery indication

A battery symbol will flash in the display when batteries require replacement. Batteries should be replaced within 15 days, after which the thermostat will turn off the load it is controlling. When this happens “OF” will be displayed.



### Switch function

The function of the switch at the lower side of the thermostat has 2 options. You can select the option by setting the second dip in the dip group. See DIL switch setting.

### NSB setting

This switch is used as Day/Night switch.

When the switch is set to the “Sun Symbol”, the thermostat controls at the temperature set by the setting dial.

When set to the “Moon symbol”, the thermostat controls at 4°C below the temperature set by the setting dial.

**Note:** if used to control cooling, thermostat controls 4°C higher, with switch in Moon position

### ON/OFF setting

The switch is used as ON/OFF control

When the switch is set to the “Sun Symbol”, the thermostat controls at the temperature set by the setting dial.

When set to the “Moon symbol”, the thermostat output is turned off and “OF” is display.

### Error Code

**E1** flashing in the display: Room sensor short circuit. Thermostat shut down all output

**E2** flashing in the display: Room sensor broken. Thermostat shut down all output.

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**Temperature alarm**

If the room temperature is higher than 30°C. **HI** will be displayed. In cooling mode, the heating should start working; In heating mode, the heating should stop working.

If the room temperature is lower than 5°C. **LO** will be displayed. In cooling mode, the heating should stop working; In heating mode, the heating should start working.

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**CUSTOMER ASSISTANCE**

**After reading this guide, if you have any question about the operation of your thermostat, please contact your installer or service provide.**