

# Optima Thermostat

ST880ZB / ST880ZBPB



One touch ring to control the HVAC.

Whether it's a heat pump, conventional furnace, or air conditioner, this thermostat can control the system with a touch.

- Intuitive touch ring control for ease of use
- Control the HVAC system from anywhere using smartphones, tablets or PCs when connected to a compatible home automation system
- Consistent comfort with advanced accuracy controls
- Stylish contemporary design to fit any decor
- Compatible with all forced air systems that use low voltage thermostats
- Quick and simple installation, even on non-C wire systems

## Description and Features

The SALUS Optima thermostat is a low voltage thermostat suitable for heat pumps, conventional furnaces and/or air conditioners, and provides the following features.

- Touch ring user input
- Support for 2 stage heat pump with auxiliary heat
- Support for 2 stage conventional furnace and/or air conditioner
- Works with ZigBee home automation systems
- Time and date display when connected
- Lever lock terminals
- 2x AA alkaline batteries for non-C wire or backup operation
- Up to 18 months on a set of AA alkaline batteries
- Two colors: ST880ZB White  
ST880ZBPB Black

## System Overview



## Order Details / Contact

Model Name: Optima Thermostat

Model	Single Unit UPC	Carton GTIN
ST880ZB	817989021502	10817989021509 (20 pcs)
ST880ZBPB	817989021519	10817989021516 (20 pcs)

Tel: 1.650.360.1725

Email: sales@salusinc.com

SALUS NORTH AMERICA, INC.

850 Main Street

Redwood City, CA 94063

www.salusinc.com

## Specifications

### Controls

Slider Ring

- / Previous touch button

+ / Next touch button

Fan / Hold /Back touch button

Mode / Enter touch button

Reset Button

### Indicators

Day of Week & Time

Heat and Cool Icons

Room Temperature

Radio Icon

Fan Indicator

Set Point Temperature

Low Battery

System Mode

Fan Mode

Message Area

### Terminals

Furnace and Air Conditioner		Heat Pump	
RC	24 VAC for Cooling System	R	24 VAC for Heat Pump
RH	24 VAC for Heating System	--	Jumper to R
C	24 VAC Common Return	C	24 VAC Common Return
--	Reserved	L	System Monitor
Y1	Single / 1 <sup>st</sup> Stage Cooling	Y1	Single / 1 <sup>st</sup> Stage Compressor
Y2	2 <sup>nd</sup> Stage Cooling	Y2	2 <sup>nd</sup> Stage Compressor
W	Single / 1 <sup>st</sup> Stage Heating	W1	Emergency Heat
W2	2 <sup>nd</sup> Stage Heating	O/B	Changeover Valve
G	Fan Signal	G	Fan Signal
--	Reserved	--	Reserved

### Mechanical

Weight: 0.76 lbs, 345 g

Dimensions: 4.2" x 4.2" x 1.1", 10.7 x 10.7 x 2.9 cm

### Power

C-wire or 2 x AA alkaline batteries

C-wire: R/RC/RH: 18-30 VAC, 60 Hz

Battery life: 18 months under normal usage

### Radio

802.15.4 radio (2.54 GHz), ZigBee HA1.2 based protocol

### Environmental Conditions

Operating: 32 -122 °F, 0 - 50 °C, 5 - 95% RH, non-condensing

Storage: 14 - 140 °F, -10 - 60 °C, 5 - 95% RH, non-condensing

### Agency Compliance

FCC, Industry Canada

### Warranty

5 years limited warranty

### Compatible Devices

SG888ZB – Basic Gateway

