

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

Descriptions 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

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

Specifications

Controls

Slider Ring	Fan / Hold /Back touch button
- / Previous touch button	Mode / Enter touch button
+ / Next touch button	Reset Button

Indicators

Day of Week & Time	Set Point Temperature
Heat and Cool Icons	Low Battery
Room Temperature	System Mode
Radio Icon	Fan Mode
Fan Indicator	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 / 1st Stage Cooling	Y1	Single / 1st Stage Compressor
Y2	2nd Stage Cooling	Y2	2nd Stage Compressor
W	Single / 1st Stage Heating	W1	Emergency Heat
W2	2nd 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

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 Universal Gateway

Note: Specifications are subject to change without notice

