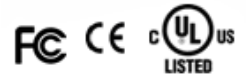




# VS-SMARTSTAT-VAV VS-SMARTSTAT-PFC



## Communicating LCD Sensor and Balancing Tool for Voyant Solutions VS-VAV Controllers & VS-PFC Powered Fan Coil Unit Controllers

### Overview

The VS-SMARTSTAT is specifically designed to interface with Voyant Solutions' VS-VAV, VS-VVT, VS-PFC- line of controllers. The VS-SMARTSTAT provides accurate temperature sensing and it provides a variety of functions that can be accessed by everyday users as well as password protected functions for technicians.

The VS-SMARTSTAT provides a user friendly interface that makes it possible for users to view and adjust comfort settings. Users can also view the occupancy status, space temperature, outside air temperature and adjust the set point.

Maintenance personnel have access to a password protected configuration mode that allows them to change many configuration properties, specify VAV or VVT mode on a connected terminal box, perform air balancing on a connected terminal box, send service pin messages, toggle temperature units between °C and °F, and view the values of all inputs and outputs.

The VS-SMARTSTAT can be installed permanently on the wall or used as a hand held air balancing tool that can be wired into a standard wall-mounted room sensor. Using the VS-SMARTSTAT as a portable unit, technicians can directly perform detailed monitoring and configuration (i.e. balancing) of the terminal box and associated equipment, right near the point of control. The lightweight design and quick connect 2-wire interface make the device convenient to use.

The aesthetically pleasing enclosure is suitable for classrooms, hotels, executive areas, office spaces & commercial areas. Mounting hardware with a separate sub-base is provided with the device for installation on dry wall or on a 2" x 4" electrical junction box.



### Product Features

#### Voyant Solutions Device Compatibility

- The VS-SMARTSTAT is designed to work with the VS-VAV, VS-VVT, and VS-PFC
- Data is sent directly to the associated controller's SMRT inputs using a serial communication protocol
- Can be temporarily used with wireless controller models for air balancing

#### Hardware Features

- Power and communication over 2-wire interface allow use of existing sensor wiring
- Two-line (8 characters per line) LCD display
- Robust ABS resin casing with an attractive design
- On board LON jack (usage requires 2 more wires)
- Override button

#### Interface Features

- Occupants can access various user mode functions:
  - View space temperature
  - View / Adjust setpoint
  - View occupancy state
  - View outside air temperature
  - Displays wink state
- Password protected configuration mode for advanced functions:
  - VAV balancing (hot/cold/mixed duct flow configuration)
  - Send service pin message
  - Toggle temperature units (°C/°F)
  - Select VAV or VVT control mode
  - View all the VS-VAV, VS-VVT, or VS-PFC input and output values.

#### Portability

- Can be used as a portable balancing tool by temporarily wiring into a communications port on a conventional temperature sensor or by temporarily connecting to the VAV using direct wiring

### Applications

- Monitoring room/outside temperature
- Adjusting set points
- Initiating set point override
- Air balancing tool for terminal boxes
- Permanent installation or use as a hand held air balancing tool in conjunction with a standard room sensor

## Product Specifications

General		Communications	
CPU:	PIC16C622	2400 baud serial communication over 2-wire interface.	
Power Source:	Externally powered - 12 VDC	Half duplex, 8-bit, no parity, 1 stop bit.	
LCD Display:	2 Lines, 8 Characters	Protocol based on EIA-232.	
		Wiring: 50 feet max. (15 meters max.), 22 AWG unshielded, twisted pair, stranded cable.	
Environmental		General	
Operating Temperature	0°C to 70°C, 32°F to 158°F	Sensor	10K NTC Thermistor,
Storage Temperature	-20°C to 70°C, -4°F to 158°F		Range 0° C to 70° C; 32° F to 158° F
Relative Humidity	0 to 90% Non-condensing		Accuracy: ±0.2° F, ±0.36° F
			Resolution: 0.1° C; 0.18° F
Electromagnetic Compatibility		Enclosure	
CE	CEI-61000-4-3:1995	Material	ABS resin
	CEI-61000-4-6:1996	Color	Off white
	CEI-61000-4-2:1995	Dimension	4.94" x 3.38" x 1.28"
	CEI-61000-4-4:1995		(124 x 85 x 32.5 mm)
Agency Approvals		Shipping Weight	0.4 lbs (0.18 kg)
UL Listed (CDN & US)	UL-873 Temperature Indicating & Regulating Equipment (Pending)		
FCC	FCC part 15, subpart B, class B		
Material	UL94-V0		

### Product Warranty

**The Voyant Solutions product line is built to meet rigorous quality standards and carries a full two-year warranty. All Voyant Solutions products are manufactured by an ISO 9001 registered company.**

### Peripherals

In addition to the Voyant Solutions' product line, we invite you to take advantage of our array of peripheral product offering. We are confident our peripheral product offering can:

- Facilitate your ordering process.
  - Simplify your search for equal or better prices on all items.
  - Help standardize your purchasing process by providing quality and performance-proven products.
- Please contact [sales@voyantsolutions.com](mailto:sales@voyantsolutions.com) for a complete list of available products and peripherals.

## Product Specifications

