

SS1000 - Plug-and-Play Energy Controller for Packaged Terminal Air Conditioning (PTAC) Systems

DATA SHEET

Overview

The SS1000 is a sophisticated plug-and-play energy controller for packaged terminal air conditioning (PTAC) systems. The SS1000 controls the PTAC based upon occupancy. The unit is available for 120, 240 and 277 VAC applications. The connections come standard with UL approved sockets and plugs, or direct wired-in connections.

The SS1000 uses a wireless radio network to communicate with occupancy sensors (SS2000 sensor). Using these occupancy sensors, the system determines whether or not a space is occupied. When people are present, the SS1000 maintains comfort and ventilation at occupant selected levels. When vacant, the SS1000 automatically reduces the energy consumption on the PTAC by setting back the maintained temperature. In addition, it is constantly performing patented scientific calculations to ensure that the comfort temperature is achieved within a specified timeframe upon the occupant's return.

The microprocessor inside the SS1000 not only performs the drift/drive calculations specified above, but it records detailed occupancy and duty cycle data so that management reports may be generated. These reports assist in determining room occupancy patterns/percentages, PTAC system efficiency, runtime hours saved, etc.



Features

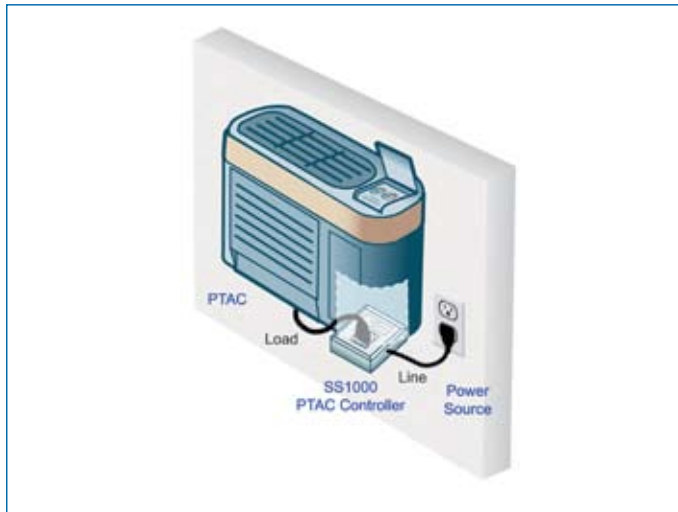
- Easy to install plug-and-play connections
- Guaranteed comfort recovery time setting of 2 to 255 minutes
- Continuously learns temperature drift and drive characteristics; continuously maximizes temperature drift (and energy savings) when vacant
- Uses digital signal processing to recognize people, even when sleeping
- Superior RFI and EMI immunity
- UL & FCC approved, ENERGYSTAR certified
- SSDN radio network, 49.85 MHz, 1200 baud, AM
- Interfaces with RS-232
- Motion/infrared occupancy sensors communicate wirelessly to the SS1000

Technical Specifications

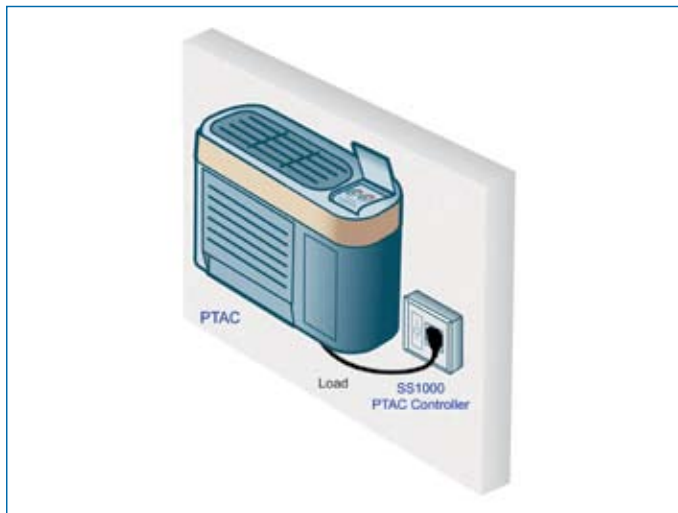
Parameter	Limits	Units	Comments
Operational Voltages	120, 240, 277	VAC	All +/- 20%
Input Current	1, 0.5, 0.4	Amp	Constant 1 watt
Switched Current	20	Amp	—
Motor Ratings	1, 2.5, 2.5	Hp	—
Operational Range	35 - 99	Degrees F	—
Temperature Resolution	1/64	Degrees F	—
Display	3 color LED	—	Red, Green, Orange
Day/Night Sensing	—	—	Day and Night Comfort
Data Port	—	—	RS232
Dimensions	4.6 x 4.6 x 2.75	Inches	L x W x Profile
Certifications	UL, FCC, RSSI	—	US, Canada, Mexico

*Technical specifications are subject to change at any time.

Typical Wiring Diagrams



SS1000 PTAC Controller plugs into the A/C unit and into a standard power source outlet for non-standard installation configurations.



SS1000 PTAC Controller mounts over the existing power source outlet for security and ease of use.

Related Products: SS2000 Occupancy Sensor

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