



SensorStat Gateway Server

A network-edge gateway server that provides real-time data aggregation, reporting, and management of the SensorStat product suite.



BENEFITS

Energy Saving Statistics at Your Fingertips

The SensorStat gateway server is a solid-state network appliance used to manage data and remote commands securely via Internet as part of the SensorStat product suite. In a typical SensorStat network, thermostats perform as ZigBee® routers on a redundant wireless network and continuously send data about current temperature, setpoint, thermostat mode, duty cycle, occupancy status, and many other variables regarding the performance of the HVAC unit.

The SensorStat gateway server acts as a gateway for this flow of data, organizing and transmitting it to the SensorStat control software web portal for analysis and display. By managing this flow of data, the SensorStat gateway server allows SensorStat control software to display meaningful reports, graphs, analytics, and alerts regarding energy usage and savings for the entire group of SensorStat products distributed across a network. SensorStat control software can then perform actions on individual or groups of HVAC units by issuing commands to the SensorStat gateway server. These commands include changing operational settings such as setpoint, thermostat mode, fan speed, or global settings such as temperature minimums and maximums.

Network Intelligence for Easy Setup

The SensorStat gateway server is designed for simple installation within a network and the web-based graphical-user-interface (GUI) makes initial setup fast and easy. With the platform's history of performance comes a collection of software tools capable of functioning on many network infrastructures. Because of the network tools available on the SensorStat gateway server, complicated port forwarding or special network setup are not necessary.

The SensorStat gateway server can function with a public routable IP address or on a private network by creating an outbound secure tunnel back to SensorStat control software. Using this secure Internet tunnel, the SensorStat gateway server forwards all data from each individual thermostat to the central database storage. The SensorStat gateway server pro comes with 6 network RJ45 ports for larger installations. One port is reserved for the incoming Internet Service Provider (ISP) and the remaining ports can be configured to communicate with other SensorStat devices, Building Management Systems (BMS), or Property Management Systems (PMS).

For more complicated networks, the SensorStat gateway server supports over 4,000 802.1q VLANs, allowing the gateway to communicate across many networks simultaneously. The SensorStat gateway server also monitors the other components of the SensorStat product suite and can send email or text message alerts in case a device stops responding. Bandwidth requirements for the SensorStat gateway server are minimal, with a typical 100-thermostat building requiring only 100kbps of bandwidth.

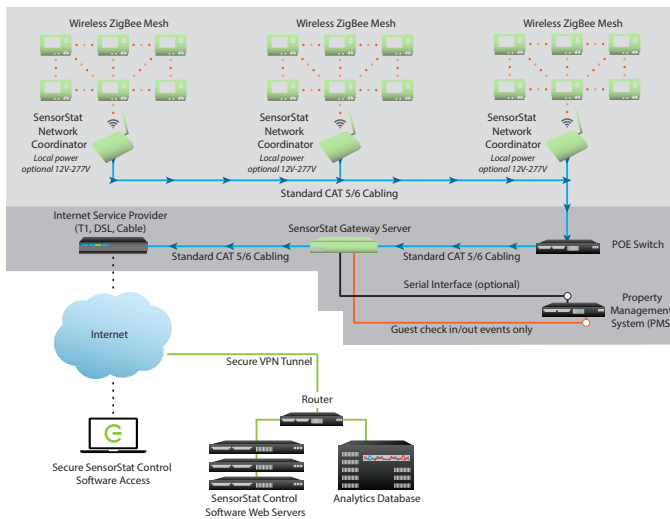
Flexible with Open Standards and Interoperability

The SensorStat gateway server was developed with interoperability in mind. Using common web service methods, it provides a path for easy third-party tool development. The SensorStat gateway server firmware is under continual development, and with a Linux® core, it provides a solid base for expansion. Projects like OpenADR and many developing standards may be remotely loaded onto an SensorStat gateway server that has already been deployed, ensuring a robust upgrade path as Smart Grid protocols are established.

As the central point on the network, the SensorStat gateway server is easily set up to respond to external inputs from Property Management Systems (PMS) or other building automation systems. In hotels, information on rooms that have not been sold or might be out of service allows for deeper energy savings. Additionally, the SensorStat gateway server is able to bridge protocols at the network layer with standards such as BACnet™ web service. This allows an integration path for buildings which have existing DDC or BMS infrastructure in place.

Multiple Applications

The power and intelligence behind the SensorStat gateway server make it an ideal fit for a number of applications, including residential and office complex space. New opportunities for efficiency in HVAC are constantly uncovered with the wide array of support the SensorStat gateway server provides.



The above diagram illustrates how the SensorStat gateway server communicates within a typical property setting.

FEATURES

Overview

- On-site system server
- Aggregation of data from all SensorStat network coordinators
- Communicates upstream with SensorStat control software
- Access to many resources that constantly monitor and control your energy savings
- Provides interface to supported property management systems

Key Features

- Easily installed and programmed
- Supports over 4000 802.1q VLANs
- 4 or 6 onboard RJ45 ports
- Communicates with other SensorStat products to ensure the highest energy savings
- LED lights to ensure product functionality and error reporting
- BACnet compatible

SPECIFICATIONS

The Essentials

Part Number

BT100302	SENSORSTAT GATEWAY SERVER PRO
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Technical

10/100/1000BASE-T Ethernet RJ45 WAN & LAN Ports
Multiple subnet support
Static port mapping

Dimensions

Height	1.75"
Width	17"
Depth	15.5"

Standards

UL Certified
Field-Upgradable Firmware



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