



OptiNet®
Optimizing Ventilation Performance



FEATURES

- Multi-parameter sensing.
- Exceptional accuracy and repeatability for single-ended and reference-based measurements.
- Calibration and maintenance of sensors is automatically and routinely scheduled through Aircuity's calibration depot covered by the Sensor Services program.
- Adaptable and scalable to grow with a facility.

SST700/SST500 Sensor Suite

At the heart of each OptiNet® system is the SST700 or SST500 Sensor Suite. The SST700 is capable of supporting all of the environmental sensors used in the full array of OptiNet sensing and control applications, while the SST500 is limited to applications concerning either or both moisture and CO2 sensing. Typically, the SST500 is applied in situations requiring lower first cost as a tradeoff to system capabilities, and is limited to applications involving less critical environments, such as certain office building applications. The SST700 is required in critical environment applications (such as in Labs and Vivariums), and is often the best choice when supporting IEQ, LEED®, or control applications where more comprehensive sensing capabilities are required.

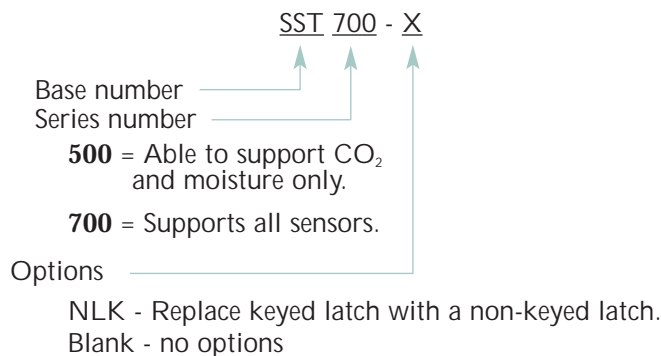
OptiNet's centralized sensor platform affords a more robust, cost effective approach to monitoring multiple parameters at many locations. A "virtual" sensor function is created as if the sensors were actually located in the environment being monitored. A shared platform additionally negates sensor errors through a true differential measurement (comparing outside to inside conditions via a common shared sensor); while minimizing calibration and maintenance costs.

Sensors Supported*

SST700	All Available OptiNet Sensor Types
SST500	Any OptiNet CO ₂ or Dewpoint Sensor

**Refer to the Sensor Suite Sensors data sheet for further details.*

Ordering Guide



SPECIFICATIONS

Mechanical

Operating environment: 40° - 120°F (4.4 - 49°C), 0-90% RH (non-condensing)
Size: 20" H x 20" W x 12" D
Weight: 38 lbs.
Mounting: Wall mount

Electrical

Power: 24Vac, 50 - 60 Hz
Power Consumption: 50 VA

Connections

Power: 2-position fixed screw terminal connector
MicroDuct®: Push-to-connect
Vacuum pump: Push-to-connect 3/8" ID
Communications:
OptiNet: 3-position, pluggable screw terminal connector
Service port: Female RJ11 jack

Sensors

Refer to the Sensor Suite Sensors data sheet.

Communications

Interface: OptiNet RS-485
Speed: 19.2K baud
Length:
Subnet: 500 ft. standard
Network: 4,000 ft. standard
Media:
Subnet: OptiNet structured cable with composite 22AWG twisted shielded pair and internal MicroDuct
Network: 22AWG twisted shielded pair with drain

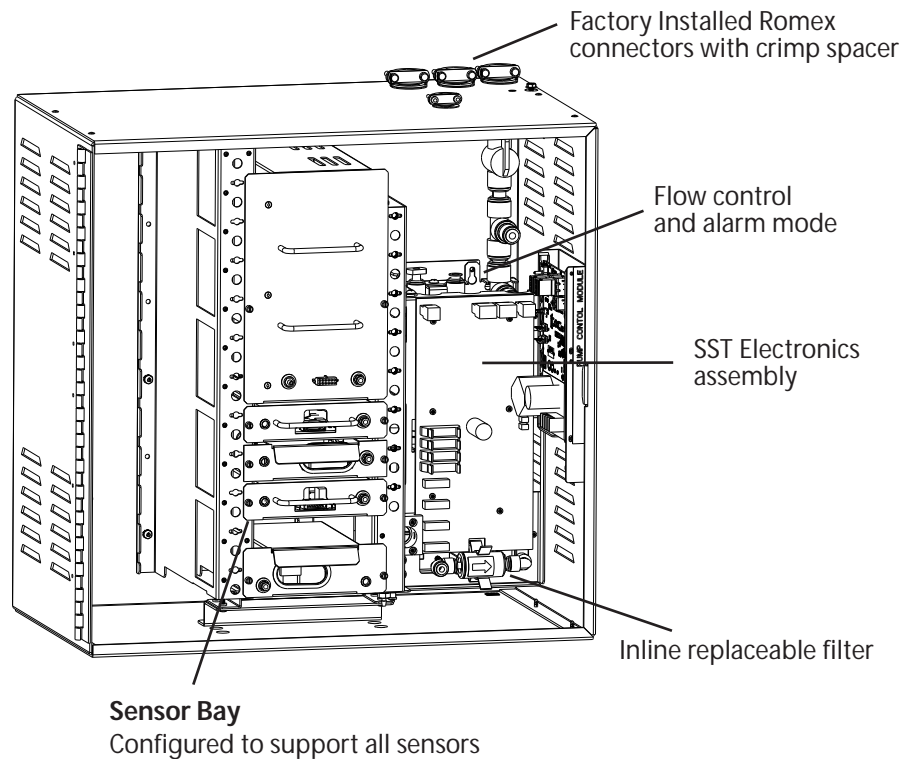
U.S. Patents

7,302,313; 7,216,556; 6,425,297; 6,252,689; 6,125,710 and others pending

UL Listed

UL916 Energy Management Equipment

SST 700



SST 500

