



MicroScan ControlStat

EASY INTEGRATION

Can be implemented into existing and new network systems with ease due to its BACnet functionality and compatibility with InfoScan.

STANDALONE FEATURE

Performs control whether the network connection is online or not, ensuring the environment is maintained according to your unique requirements.

EASY INSTALLATION

The ControlStat is designed for quick and easy mounting and integration. Every connection can be accomplished in a single cable using the removeable terminal blocks when using the recommended cable.



- One device to install vs. controller/sensor combination
- Look and feel of a thermostat
- BACnet Compatibility
- Flexible models for varying applications
- Local Override support
- Hinged circuit board and removable terminal blocks
- Large backlit LCD display

The MicroScan product line now includes a unique line of controller-thermostats designed for the small unit DDC market. These intelligent thermostats go beyond the traditional electronic thermostat in that they include the capability to communicate on the MS building networks. These thermostats have been specifically designed to control packaged and split staged heating/cooling equipment including heat pumps. The ControlStats are pre-programmed to suit most user applications, and contain all required input and output options to perform precise temperature control regardless of the application.

The product is an exceptional value due to its all-inclusive features; packaging the required I/O and control programming into one easy to install device. These ControlStats are also equipped with communication hardware and software enabling them to operate on InfoScan's building level BACnet backbone,

offering user access and control capability usually only associated with larger, more costly controllers.

The ControlStat products have also been designed for ease of installation, wiring and commissioning in order to reduce overall project costs. Removable terminal blocks and a hinged PCB board facilitate the installation and wiring process. A local intuitive, onboard menu driven configuration utility allows the installer to select appropriate preset control settings to suit their application. Network status LEDs provide indication of communications activity on the BACnet MS/TP network to ease the integration process.



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TECHNICAL SPECIFICATIONS

Physical

Dimensions: 4.94" w x 3.83" h x 1.135" d
Weight: 0.75 lb

Environmental

Storage: -30-50° C (-22-122° F);
0-95% RH non-condensing
Operating: 0-50° C (32-122° F);
0-95% RH non-condensing

Supply Voltage

19-30 VAC, 50/60 Hz, 2 VA

Sensor Types

Resistive, +/- 2F
Dry contact digital input
0-10 Vdc analog output

Communication

RS485, Baud rate 9.6-38.4 kbps

Supported Protocols:

BACnet MS/TP

Specifications subject to change without notice

Features and Benefits



The MicroScan ControlStat is specifically designed for single stage and multi-stage control of heating/cooling equipment such as rooftop and self-contained units. The product features an intuitive, menu-driven, back-lit LCD display which provides users the ability to modify set points and perform local overrides of some parameters while relaying temperature and mode information to the user as well. Accurate temperature control is achieved due to the product's PI time proportional control algorithm, which virtually eliminates temperature offset associated with traditional, differential-based thermostats.

All models contain two digital inputs, which can be used to monitor filter status, activate a remote temporary occupancy switch, and/or used as a general purpose service indicator. In addition, depending on the model, up to three remote sensor inputs are available. All models contain a SPST auxiliary switch, which can be used to control lighting or disable the economizer function and a discharge air sensor input. For more advanced applications, an economizer control logic has been integrated into the thermo-

stat for use with proportional damper economizer actuators. The ControlStat uses an adaptive logic algorithm to control the space temperature. This algorithm controls the heating / air conditioning system to minimize overshoot while still providing comfort. It provides exceptional accuracy due to its unique PI time proportioning control algorithm, which virtually eliminates temperature offset associated with traditional, differential-based on/off thermostats. Other features include:

- Gas/oil or electric system compatibility for all applications
- Remote indoor averaging sensing capability
- Remote outdoor sensing capability for added flexibility
- Heat pump balance point settings
- Remote discharge air sensor input for monitoring air temperature
- System efficiency feedback
- Automatic frost protection to prevents costly freeze damage
- Anti short cycle and minimum on/off run time protection.
- 2 programmable digital inputs for added flexibility.
- 0 to 10 Vdc economizer output
- Built in dry bulb economizer logic using outdoor temp sensor
- Input for supply/mixed air temperature sensor

NEED ASSISTANCE ?

[Technical Support](#)

[Installation and Setup](#)

[Maintenance](#)

[Application Support](#)

[Software Support](#)

[Warranty ???s](#)

Email us: support@dorsett-tech.com

Ordering Information

Model	Application
MS-CS-600AB	1 Stage Heat/ 1 Stage Cool
MS-CS-600BB	2 Stage Heat/ 2 Stage Cool
MS-CS-605BB	2 Stage Heat/ 2 Stage Cool with Economizer
MS-CS-600HB	3 Stage Heat/ 2 Stage Cool with Heat Pump Control

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