MicroNet Sensors

SPECIFICATIONS

HARDWARE

Dimensions
4-13/16 H x 3-1/4 W x 15/16 D in.
(122 x 83 x 24 mm).

Enclosure
Conforms to NEMA-1 Requirements.

Surge Immunity Compliance
IEC 801.5 and ANSI C62.41 (IEEE-587, Category A & B).

Transient Compliance
IEC 801.4.

Electrostatic Discharge Compliance
IEC 801.2.

AGENCY LISTINGS

FCC
Class A.

UL-916
(File # E71385 Category PAZX).

CSA
(File #LR 3728).

AMBIENT LIMITS

Operating Temperature
32 to 122 °F (0 to 50 °C).

Shipping and Storage Temperature
–40 to 160 °F (–40 to 71 °C).

Humidity
5 to 95% RH, non-condensing.

WIRING TERMINALS

Screw terminals
#18 to 24 AWG.

MN-S and MN-SDK

MicroNet™ Sensors are a family of microprocessor-based digital room temperature sensors used with the MicroNet 2000™ Controllers. Available in two models, MicroNet Sensors include industry standard thermistors for accurate room sensing and plug-in communication jacks for the MicroNet Controller Interface software. These MicroNet Sensors are designed for use with the MN-FLO-700 and MN-FLO3T-700 stand-alone MicroNet VAV Controllers.

Using the digital wall sensor, the operator can monitor the performance of the product, edit operational values, and even reprogram the controller, if provided with the proper password level. Up to two sensors can be connected to a MicroNet 2000 Controller.

MicroNet Sensors are suitable for direct-wall, 2 x 4 electrical box, 1/4 DIN electrical box, or surface box mounting.

A MicroNet Sensor connected to a MicroNet 2000 Controller is considered a stand-alone digital temperature control component. The MicroNet Sensor measures room conditions and relays the information to the controller via the U-Link™. The digital wall sensor is durable, and offers easy monitoring as well as a wide variety of interface capabilities for the user. The MicroNet Controller Interface Module plugs into the communication jack on the sensor to provide a user interface to the controller via the MicroNet Controller Interface. The MicroNet Controller Interface software may be utilized to set up and monitor a MicroNet Controller.

INPUTS

Display Range
Setpoints/input span varies with the controller application.

Temperature
–320 to 320 °F (–195 to 160 °C).

Flow
0 to 9,990 CFM. Larger values can be monitored and accessed via the MicroNet Controller interface.

Continued on next page.

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Specifications continued from first page.

SOFTWARE

Access Levels (MN-SDK only)
Three access levels for monitoring, operating, and editing functions with automatic time-out feature.

Digital Display (MN-SDK only)
Custom field configurable sensor displays.

Auto-ranging of displayed values.

Adjustable minimum/maximum limit setpoint values.

Controller driven, automatically configured, customized display/command values.

TYPICAL MN-SDK DISPLAY/CHANGE VALUES

Value	Display	Change
Zone Temperature	Yes	No
Heating Setpoint	Yes	Yes
Cooling Setpoint	Yes	Yes
Mode (Heating/Cooling)	Yes	No

FEATURES

- Contemporary, low-profile packaging.
- Digital zone temperature indication (selectable 0.1 or 1 degree display of °F or °C).
- Accurate temperature sensors provide interchangeability without recalibration.
- Self compensating temperature conversions remove the need to calibrate over time.
- Accepts virtually any wiring type including unshielded pairs without termination resistors.
- Displays selected values such as setpoints, operating mode, and actual air flow.
- Configurable intuitive display screens that are permanently retained, even if the MicroNet Sensor is replaced.

MODELS

Model	Description	Keypad	Display
MN-S	Sensor only	No	No
MN-SDK	Deluxe	Four-button	Digital Liquid Crystal Display

COMMUNICATIONS

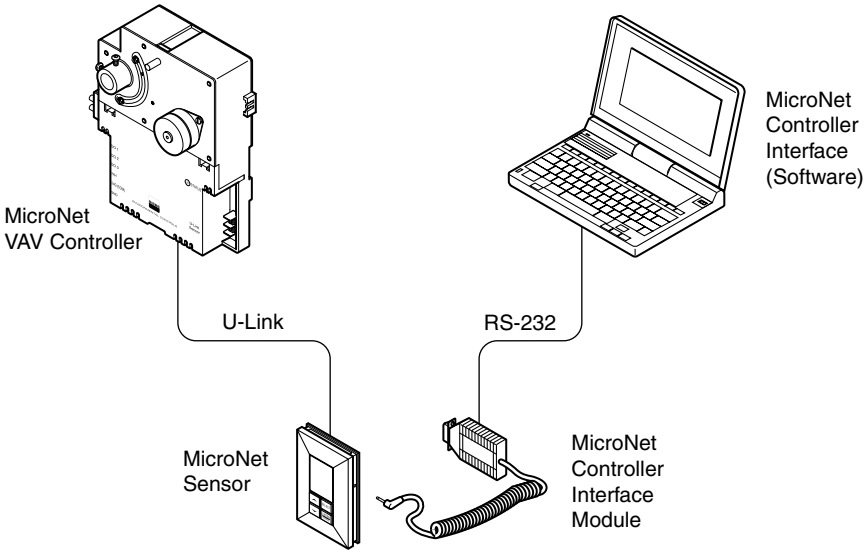
MicroNet U-Link
A 2-wire connection that provides power and communication interface to the MicroNet Sensor. 200 ft. (61 m) between controller and controlled devices or peripherals. 400 ft. (122 m) total distance including all wire segments.

Plug-in Communication Jack
Provides receptacle for MicroNet Controller Interface Module (MN-CIM) for user access to the MicroNet 2000 Controller via the MicroNet Controller Interface software.

ACCESSORIES

Part Number	Description
AT-1104	Cast aluminum guard
AT-1155	Plastic guard
AT-1163	Wire guard
MNA-STAT-1	Replacement Covers (qty. 12)
MNA-STAT-2	Designer inserts for MN-S model (qty. 25)

ARCHITECTURE



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