Network Sensors
BACstat II: DNS-24L\H24LB

Description

This addition to the BACstat II family of network sensors and thermostats is a LINKnet only version of the DNS-24. The DNS-24L is an intelligent room sensor with a custom LCD display and 4 push buttons for user control. Both the LCD display and the push buttons can be fully programmed via GCL+ over the LINKnet network.

Features

—Built-in 10kΩ thermistor

—Optional terminal block for wiring a remote thermistor to the temperature input

—Optional built-in humidity sensor

—LINKnet communications

—Programmable 3-value, 96 segment, LCD display (via GCL+ over LINKnet) with optional backlighting

—4 Programmable Buttons (via GCL+ over LINKnet)

—Optional buttons for fan speed control when used with Delta Fan Coil Controllers (DFC's)

—Service port

Application

The DNS-24L is used for applications that require one or more low cost, programmable sensors with LCD display and push button control.

Specifications

LCD
3-value and various icons (96 total segments) with optional backlighting

Push Buttons
4 stylized momentary push buttons

Temperature Sensor
Thermistor Input – 10kΩ @ 77°F (25°C)

Accuracy of +/- 0.36°F from 32° - 158°F (+/- 0.2°C from 0 - 70°C)

Display Resolution of 0.1 °

Stability of 0.24 °F over 5 years (0.13 °C)

Humidity Sensor
Accuracy of +/- 3%RH from 20% -80% RH (linearized accuracy of +/- 3% to +/- 5% from 0-20% and 80-100% RH)

Display Resolution of 0.1%

Stability of < 0.5% RH/yr (typical)

Technology
8-bit processor with internal A/D, Flash, and RAM

Device Address
Set via DIP switches

Communications Port
Delta LINKnet @ 76800 bps (default) or 38400 bps
(maximum 12 devices, depending on the controller, with no more than 2 DFM devices per LINKnet segment)
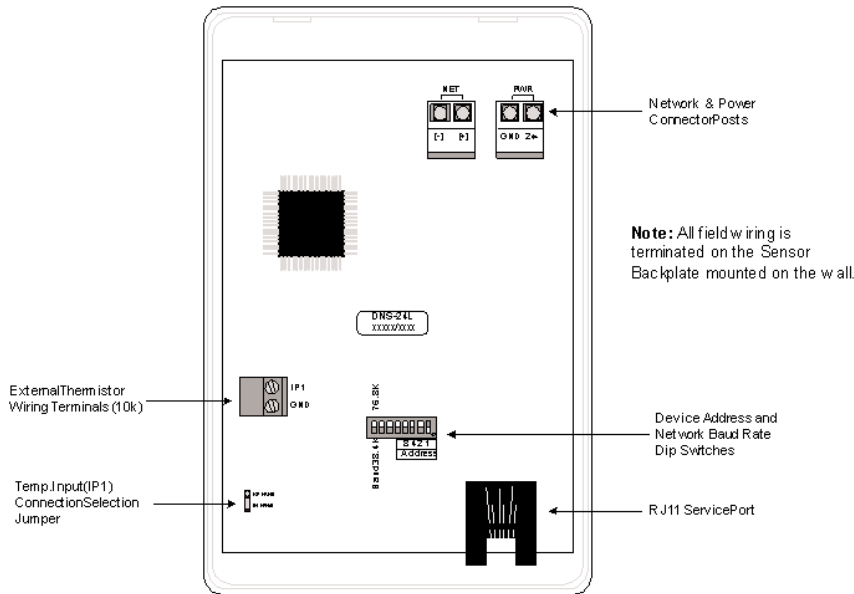
Connectors
Screw-type terminal connectors

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Do it right.

Network Sensors
DNS-24L\H24LB: Board Layout Diagram

Network & Power Connector Posts

Note: All field wiring is terminated on the Sensor Backplate mounted on the wall.

DNS-24L XXXX/XXX

External Thermistor Wiring Terminals (10k)

Temp.Input(IP1) Connection Selection Jumper

Device Address and Network Baud Rate Dip Switches

RJ11 Service Port

Accessories
RPT-768—Delta Network Repeater for BACnet MS/TP

TRM-768—Delta Network Terminator for BACnet MS/TP

CON-768—Delta Network Converter

Ordering
Order the DNS-24L with the desired options according to the following product numbers:

DNS-24L—Internal Thermistor Input

DNS-24LB—Internal Thermistor Input, Backlighting

DNS-24LX—Internal Thermistor Input, External Thermistor Terminator

DNS-24LBX—Internal Thermistor Input, Backlighting, External Thermistor Terminator

DNS-H24LB—Internal Thermistor Input, Internal Humidity Input, Backlighting, External Thermistor Terminator

Note
Include one of the following button icon codes to indicate which one to emboss on the product. If not indicated, the product is shipped with the default button icons (example, DNS-24LB-FAN or DNS-24LX-INT).

Default—Bottom 2 buttons are ▼ & ▲ (Setpoint Adjust), top 2 buttons are OFF and ON

-INT—Bottom 2 buttons are ▼ & ▲ (Setpoint Adjust), top 2 buttons are O and I (International)

-FAN—Bottom 2 buttons are ▼ & ▲ (Setpoint Adjust), top left-button ⏻ (ON/OFF), top right-button � (Fan speed)

Do it right. Delta CONTROLS™