

Network Sensors

BACstat® II: DNS-24L

Description

The DNS-24L is a LINKnet-only network sensor with a temperature sensor, a customizable LCD display and 4 push buttons for user control. Both the LCD display and the push buttons are fully programmable via GCL+ over the LINKnet network.



Application

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

Features

- ▶ Built-in digital temperature sensor
- ▶ 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)
- ▶ Optional service port
- ▶ Optional terminal block for wiring a remote thermistor to the temperature input

Specifications

LCD

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

Push Buttons

4 stylized momentary push buttons

Digital Temperature Sensor

Accuracy of +/- 0.36°F (+/- 0.2°C)

Humidity Sensor (Optional)

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

Display Resolution of 0.1%

Stability of < 0.5% RH/yr (typical)

Device Addressing

Set via DIP switches

Connectors

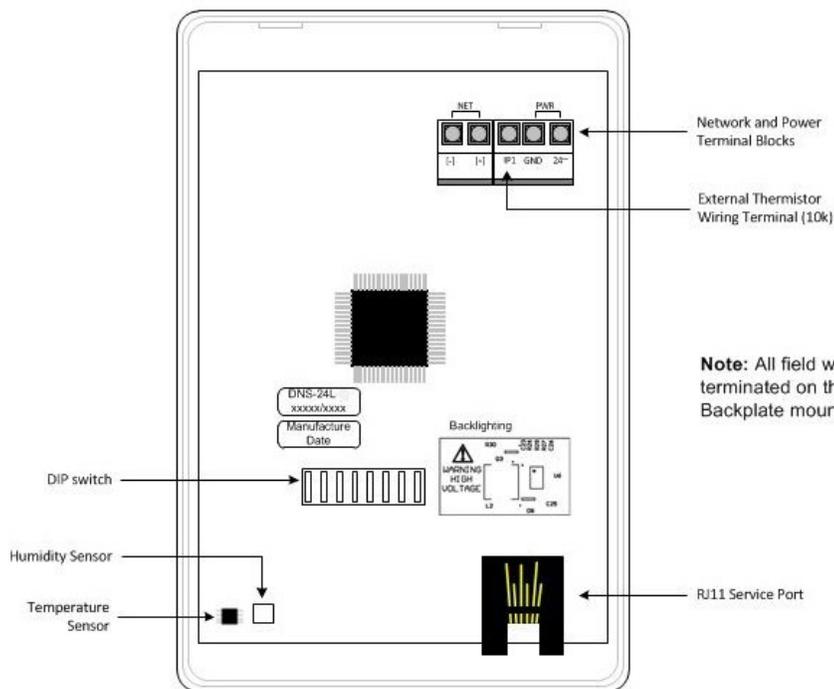
Screw-type terminal connectors

Wiring Class

Class 2

Network Sensors

DNS-24L Layout Diagram



Specifications (Continued)

Power

24 VAC @ 1.5 VA

Technology

16-bit microcontroller with 48 kB flash and 3 kB RAM

Communications Port

Delta LINKnet up to 76800 bps, max 12 devices on LINKnet with no more than 2 DFM devices

Ambient

32° to 131°F (0° to 55°C)
10 to 90% RH (non-condensing)

Dimensions

4¹⁵/₁₆ x 3¹/₄ x 1 in. (12.5 x 8.3 x 2.6 cm)

Weight

0.3 lb. (120 g)

Compliance

CE
FCC

Listings

UL 916 Listed

BACstat is a registered trademark of Delta Controls Inc.

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Ordering

Order the DNS-24L according to the following product numbers:

DNS-24L	Internal thermistor input, external thermistor terminator
DNS-24LB	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 no code is indicated, the default button icon set is shipped.

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 0 and 1 (International)
FAN	Bottom 2 buttons are [Setpoint Adjust], top left-button (ON/OFF), top right button (FAN Speed)

Subject to change without notice.