GAS/ELECTRIC THERMOSTATS
for 1 & 2 Compressor Applications

GE11-NX  1 Heat / 1 Cool
GE22-NX  2 Heat / 2 Cool
(using XBUS Protocol)

GENERAL DESCRIPTION
The GE11-NX and GE22-NX communicating thermostats are designed for new or replacement commercial or residential conventional applications. The Net/X thermostats represent the latest in solid-state surface mount electronics and manufacturing techniques incorporated into an extremely low-profile, ultra-slim white ABS plastic case. Both units offer "user-friendly" control of the heating/cooling equipment along with an easy-to-read vertical LCD that displays complete operating status. An included 2-wire communications port allows complete scheduling, remote control and status with a separate serial interface. A direct-wire, easy-to-install sub-base mounts directly on a standard vertical outlet box or any drywall surface using hardware provided.

Standard Features
- Selectable Celsius or Fahrenheit temperature display
- Fan selector for continuous fan operation
- Built-in anticipation and droop
- Built-in short cycle protection
- Electronic circuitry replaces conventional mechanical anticipator
- Internal switch to lockout the keypad to prevent unauthorized tampering
- Day/Night (Occupied/Unoccupied) button allows setpoint setback for energy savings
- No battery required (maintains last setpoint/mode of operation following power outages)
- Lockable access cover
- Commercial lockout with 1 or 3 hour temporary override; +/- 3°F adjustment during override
- Plenum fan switch
- GE22-NX has 2 LED lights available for status indication with switchable LCD icons
- Automatic changeover from heat-to-cool and cool-to-heat
- 2°F (1°C) minimum Heat/Cool separation
- Complete control and status via any of NetworkThermostat’s interfaces
- Selectable minimum on/off time (2 or 4 minutes)
- HVAC equipment control using dry contact relays
- Optional remote indoor, outdoor, supply air and return air sensing modules

Note: Specifications subject to change without notice.
SPECIFICATIONS

Rated Voltage: 20 to 30Vac, DC 24 nominal
Rated A.C. Current: 0.05 to 0.75 Amp continuous per output, with surges to 3 Amps maximum
Rated D.C. Current: 0.0 to 0.75 Amp continuous per output, with surges to 3 Amps maximum
Control Range: Heating: 38 to 88°F in 1° steps (6 to 30°C in 1° steps) Cooling: 60 to 108°F in 1° steps (16 to 40°C in 1° steps)

Thermostat
Measurement Range: 28 to 124°F or 0 to 48°C
Control Accuracy: +/- 1°F @ 68°F (0.5°C @ 20°C)
Minimum Deadband: (between heating and cooling) 2°F or 1°C
Dimensions: 4.5" H x 4" W x 7/8" D (114mm x 102mm x 22mm)
Equipment Terminations: R-switching voltage, W1-heat stage 1, Y1-cool stage 1, G-fan, MST-1 only - Y2-cool stage 2, W2-heat stage 2

Power Terminations: 24V-power, 24V(c)-power common
Communication Terminations: X1-comm(+), X2-comm(-)
Sensor Terminations: RS+V-sensor power, RS1-comm(+), RS2-comm(-)
Setback Terminations: CLK1, CLK2-dry contact closure

NOTE: This thermostat contains electronic circuitry that replaces the conventional mechanical anticipator

Note 1: A Yellow R/24V Jumper is on thermostat circuit board and must be removed if thermostat is to be powered over the XBUS network

OUTPUT TERMINAL FUNCTIONS

<table>
<thead>
<tr>
<th>LED1</th>
<th>LED2</th>
<th>CLK1</th>
<th>CLK2</th>
<th>RS2</th>
<th>RS+V</th>
<th>X2</th>
<th>X1</th>
<th>Y2</th>
<th>W1</th>
<th>Y1</th>
<th>G</th>
<th>R</th>
<th>24V</th>
<th>24V(c)</th>
<th>24Vac</th>
<th>COMMON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free light for status or function indication</td>
<td>Free light for status or function indication</td>
<td>Dry contact closure input for setback</td>
<td>Dry contact closure input for setback</td>
<td>Remote indoor, outdoor and/or wet</td>
<td>Power for remote sensors</td>
<td>Communications bus input/output</td>
<td>Communications bus input/output</td>
<td>Energizes on a call for second stage cool, GE22 only</td>
<td>Energizes on a call for first stage heat</td>
<td>Energizes on a call for first stage heat</td>
<td>Energizes the fan circuit</td>
<td>Independent Switching Voltage</td>
<td>24Vac</td>
<td>24Vac Common</td>
<td>Energizes on a call for second stage heat, GE22 only</td>
<td></td>
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