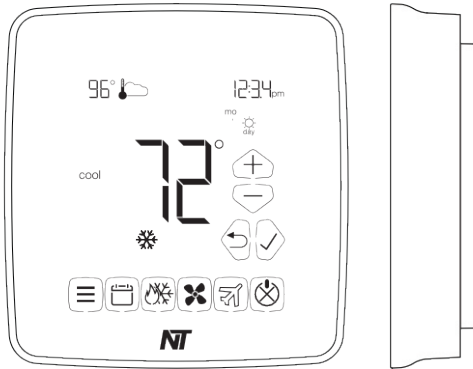


NetX™ X7-Series Thermostat

K/H/D & K2 INSTALLATION ADDENDUM



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BEFORE YOU START

Please read the entire addendum. The thermostat will need to be correctly wired and configured for proper operation. Basic HVAC configuration can be performed from the thermostat touchscreen and advanced settings can be accessed on the embedded web pages and/or the Internet.

INTRODUCTION

This addendum addresses the special controls available using the K/H/D and K2 terminals on the X7 Series thermostats. This includes control of humidity, fresh air damper, 7-day / 4-event relay scheduling, manual relay operation and Indoor Air Quality (IAQ) Control

K/H/D RELAY - GENERAL

The K/H/D relay can be configured to function as any one of the following controls:

- Humidification; with or without independent equipment
- Dehumidification; with or without independent equipment
- Fresh Air Damper
- Manual Relay Operation
- Programmable Schedule *
- Indoor Air Quality Control *

* Can be configured for use on K/H/D or K2, but not both

K2 RELAY - GENERAL

The K2 relay can be configured to function as any one of the following controls:

- Fresh Air Damper
- Manual Relay Operation
- Programmable Schedule *
- Indoor Air Quality Control *

* Can be configured for use on K/H/D or K2, but not both

HUMIDITY OPERATION (K/H/D RELAY ONLY)

Humidification:

When set to 'Humidification', this feature allows selection of a humidification call only when the heat is running, or independent of a heating call.

The relay energizes a humidification call when the indoor relative humidity drops below the value selected, with programmable variance of +/- 2%, 3% or 5% RH.

Example: With Humidify at 35% and a Variance of 5%, a call for humidification would start at 30% and turn off when the humidity level reached 40%

Dehumidification:

When set to 'Dehumidification', this feature allows selection of a dehumidification call only when the cooling is running, or independent of a cooling call.

When "With Cooling Only" is selected, and there is no dedicated dehumidification function integrated within the equipment, cooling will be initiated and the cooling set point will automatically be lowered by 2 degrees from the scheduled cooling set point to allow increased equipment run time and decreased space humidity levels.

The relay energizes a dehumidification call when the indoor relative humidity rises above the value selected, with a programmable variance of +/- 2%, 3% or 5% RH

Example: With Humidify at 55% and a Variance of 5%, a call for dehumidification would start at 60% and turn off when the humidity level drops to 50%.

FRESH AIR DAMPER OPERATION (K/H/D OR K2)

When set to 'Damper', the relay will control a 2-position (power open, spring return) damper for fresh air ventilation.

The 'When Occupied' setting will open the damper and turn on the fan during occupied schedule periods from the thermostat's normal 7-day schedules.

The 'x min/hr' setting will open the damper and turn on the fan for the set number of minutes selected.

Outdoor Temperature and Humidity Limits allow the setting of the boundaries for energizing the damper, between 120°F (49°C) and -40°F (-40°C), and 0% RH to 100% RH.

SCHEDULE RELAY OPERATION (K/H/D OR K2)

When set to 'Schedule', the relay can be configured to turn on, off, or pulse up to 4 times per day, 7 days a week. The pulsed on option can be configured from 0.2sec to 2.0sec in 0.1sec increments.

MANUAL RELAY OPERATION (K/H/D AND K2)

When set to 'Manual', the relay can be turned on or off using any of the remote connection options.

INDOOR AIR QUALITY (IAQ) OPERATION (K/H/D OR K2)

When set to 'IAQ', the relay can control multiple types of IAQ equipment, with either manual or automatic operation.

Integrated HVAC - Occupied

Use when IAQ equipment is located inside the HVAC equipment or ductwork. This setting will turn on the IAQ equipment and the HVAC fan during occupied schedule periods from the thermostat's normal 7-day schedules.

Stand Alone - Occupied

Use when IAQ equipment is located inside the HVAC equipment or ductwork. This setting will turn on the IAQ equipment during occupied schedule periods from the thermostat's normal 7-day schedules.

Integrated HVAC - Manual

Use when IAQ equipment is located inside the HVAC equipment or ductwork. This setting will allow the manual turning on or off of the IAQ equipment and the HVAC fan. Use this setting for extended occupied or unoccupied periods.

Stand Alone - Manual

Use when IAQ equipment is located inside the HVAC equipment or ductwork. This setting will allow the manual turning on or off of the IAQ equipment. Use this setting for extended occupied or unoccupied periods.

ACCESSORY PORT

The accessory port allows connection of various NetX options, including the NT-MOD-ULE wireless sensor coordinator, the NT-CO2 carbon dioxide sensor, or other future accessories.