Nepra 4000 Series

For Fan Coil Applications - 2 pipe and/or 4 pipe systems

Description:

The Nepra 4000 Series of fan coil controls is equipped with flexible programming options that allow the installer (or property owner) to set a variety of features, such as comfort limits, cycle rate, etc. In addition, optional remote sensing and setback capability are available. (See the model selection chart for details on how to order these options.)

Application:

Designed for 2 pipe and 4 pipe fan coil systems with 2 fan speeds.

Note: For highly corrosive environments such as high humidity, salty air, dusty air, etc., it is highly recommended that controls be ordered with conformal coating. (See model selection chart for details on how to order this option.)

Features:

Digital Set Point Display - Set point is displayed at all times.

Automatic Heat/Cool Changeover - Provides precise temperature control. When the room temperature changes 2° above or below the set point the system is activated (4° dead band between heat and cool). Once heat or cool is activated, control will operate with a programmed differential centered at the set point.

Auto 2-Speed Fan Changeover - Provides fast recovery to the temperature set point and quiet operation when room is close to the set point. When room temperature is 4° F from set point the fan operates in high speed. When temperature is 2° - 4° from set point the fan will change to low speed.

Comfort Limits - Field adjustable limits ensure that the room temperature cannot be set at energy wasting extremes.

Economy Set Points - Field adjustable limits ensure that when room is not in use the temperature will not rise or fall beyond a specified point.

System Fan Purge - This field adjustable feature allow the fan to remain "on" after system has been deactivated for an adjustable length of time in order to remove all residual heat or cool.

Programmable Cycle Rate & Differential - Allows for tighter temperature control by allowing the installer to adjust how frequently the control cycles and how close a differential is required.

Diagnostic Mode - Displays both set point and actual temperature for diagnostic purposes.

°F/°C Selection Switch - User can choose the desired temperature scale.

Selectable Fan Speed (on selected models) - Depending on model, fan speed can be placed in continuous Hi/Lo/Auto.

Optional Remote Sensing - Select models have remote sensing using wall or duct mounted sensors.

Optional Setback Capability - Select models can be remotely placed in setback mode by a dry contact closure.

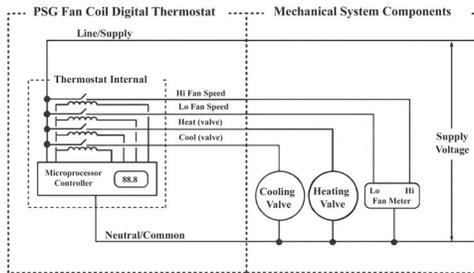## Customer Service
1-800-782-8412

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Specifications:

Input Voltage:	24, 120, 240, or 277 VAC	Case:	Flame retardant, high impact plastic, white or tan
Load Rating:	24 VAC: 1.5 amps/circuit	Cycle Rate:	Default 8 cycle/hr.
	Line Voltage: 2.0 amps (pilot duty) per stage; 1/6 HP fan load		(field programmable 1 to 24 - turned off when set to 0)
Range:	60°F to 85°F	Dimensions:	3.5"W x 5.0"H x 1.5"D
Accuracy:	±1°F	ETL Listed	
Temp. Setting:	Push button		
Fan Selection:	Push button	Limited one year warranty	

Wiring:

The wiring diagram shown is only typical. Detailed wiring diagrams will be outlined in the instruction sheets.

Model Selection:

Build your part number using the drop-down matrix below. For each underlined segment of the generic part number at the top, select from the options indicated in the corresponding box below.

N P K - 4 VVV O R A S T

Add a '**K**' for **Conformal Coating**

Indicate **Voltage**: **024**, **120**, **240**, or **277**

Indicate **Fan Operation**:
K - Continuous fan; programmable for Auto function
U - User selectable High/Low/Auto

Consult factory for custom configurations or programming options such as cool only fan coil applications.

Optional Add-ons:
R - Add **Remote Sensing**
A - Add **Aquastat Mounting Hardware Kit** (only available on remote sensing models)
S - Add **Setback**
T - Change case color to **Tan**

Example - NPK-4024URAT = 24 VAC model with conformal coating, user selectable fan, and remote sensing with aquastat kit in tan color

Accessories:

Model #	Description
SB-1*	Subbase without instructions, white plastic
SB-1D*	Subbase with "K" instructions, white plastic
SB-1E*	Subbase with "U" instructions, white plastic
SB-4	Mounting plate for 4x4 gang box, centered, metal
SB-5	Mounting plate for 4x4 gang box, offset, metal
MOLEX Style connectors	Consult factory for custom configurations

* All SB-1 series subbases are left/right reversible

SB-1

PSG Controls, Inc.

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