Model BT11NP

Model BT21NP

Non-Programmable Thermostats

BT11NP **1 Heat / 1 Cool Conventional or**
1 Heat / 1 Cool Heat Pump

BT21NP **Up to 2 Heat / 1 Cool**
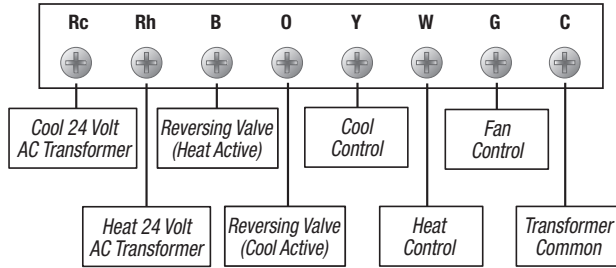**Conventional and Heat Pump**

Product Features

- ESD Guard™ Electronic Circuitry

- Bright Blue Backlight Display

- Adjustable Heat and Cool Temperature Limits

- Non-Volatile Memory Retains User Settings

- Easy Access Front Battery Door with Optional Contractor Branding

- Separate O & B Terminals

- Compressor Short Cycle Protection

- Separate Heating and Cooling Set Point Temperatures

- Dual Powered – Hardwired or Battery

- Front Access Reset Button

- F° / C° Switch

- Gas / Electric Fan Switch

- Mount to Horizontal Box

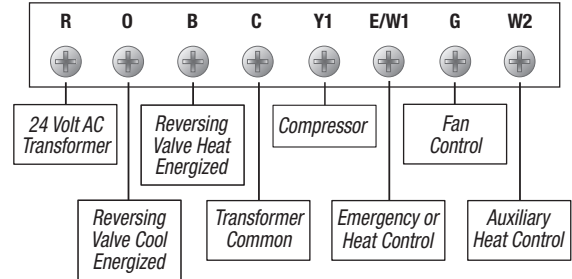- Adjustable Temperature Differential(s)

Non-Programmable Thermostats

BT11NP Terminal Designations

Rc	Rh	B	O	Y	W	G	C

- Cool 24 Volt AC Transformer
- Heat 24 Volt AC Transformer
- Reversing Valve (Heat Active)
- Reversing Valve (Cool Active)
- Cool Control
- Heat Control
- Fan Control
- Transformer Common

BT21NP Terminal Designations

R	O	B	C	Y1	E/W1	G	W2

- 24 Volt AC Transformer
- Reversing Valve Cool Energized
- Reversing Valve Heat Energized
- Transformer Common
- Compressor
- Emergency or Heat Control
- Fan Control
- Auxiliary Heat Control

Architectural Specifications

The digital non-programmable thermostats shall be BesTech™ model numbers BT11NP and BT21NP, 3.72" high x 4.75" wide x 1.12" deep, powered independently with either 24 Volt AC or with two "AA" Alkaline batteries (3.0 Volt DC). The thermostats shall be compatible with gas, oil or electric heating or cooling systems including heat pumps and 250mv – 750mv millivolt heating systems. The thermostats shall have a bright blue backlight display, adjustable temperature limits, front loading battery door and separate sub-base for trouble free installation. Temperature control range shall be between 45° and 90°F (7° and 32°C), accuracy of +/- 1°F (+/- .5°C), humidity range between 5% and 95% relative humidity. The thermostat shall include non-volatile memory to retain user settings. Thermostats shall have three level low battery indication and a front reset button will return user settings to default values when pressed. The thermostats can be mounted to a horizontal junction box.

Product Specifications

Dimensions:	3.72" x 4.75" x 1.12"
Electric Rating:	24 Volt AC (18-30 Volt AC) 1 amp maximum load per terminal 2 amp total maximum load (all terminals) [BT11NP] 3 amp total maximum load (all terminals [BT21NP]
AC Power:	18 - 30 Volt AC
DC Power:	3.0 Volts DC (2 "AA" Alkaline batteries included)
Compatibility:	Gas, oil or electric systems Heat pump systems 250mv – 750mv millivolt heating systems
Control Range:	45° to 90° F (7° to 32° C)
Display Range:	40° to 99° F (4° to 37° C)
Accuracy:	+/- 1° F (+/- .5° C)
Temperature Differential:	1st Stage: .5°, 1°, or 2° F (.25°, .5°, or 1° C) 2nd Stage: (BT21NP Only) 2°, 3°, 4°, 5° or 6°F (1°, 1.5°, 2°, 2.5° or 3°C)
Storage Temperature:	14° to 140° F (-10° to 60° C)
Operating Humidity:	5% to 95% Relative Humidity
Terminations:	Rc, Rh, B, O, Y, W, G, C (BT11NP) R, O, B, C, Y1, E/W1, G, W2 (BT21NP)

Shipping Information

INDIVIDUAL CARTON

Dimensions:	3.75" x 5.5" x 1.4"
Weight:	.45 lbs.

MASTER CARTON

Quantity:	12
Dimensions:	9" x 4.25" x 11.5"
Cubic Feet:	.25
Weight:	5.7 lbs.

BesTech™ BT11NP Replaces*

Honeywell®	T87F, T834, TH1110, TH3110, T8400C, T8401C, T8034C
White-Rodgers®	1D56, 1E56, 1E78-145, 1F56, 1F78-144
Braeburn®	1000, 1000NC, 1005, 1005NC
Robertshaw®	RS2110, 8400, 8401, 9200H/V, 9400, 9401, 9500
ICM®	SC2000, SC2000L, SC2000N, SC2001, SC2001L, SC2001N, SC2010
LuxPro®	PSD011W, PSD011B, PSD111, PSM400SA

BesTech™ BT21NP Replaces*

Honeywell®	TH1210, TH3210, T8411, T8424C
White-Rodgers®	1F73-174, 1F79-111
Braeburn®	1200, 1200NC
Robertshaw®	RS2210, 8425-1, 9415, 9420, 9515, 9520
ICM®	SC2200, SC2201, SC2201L, SC2201N, SC2210, SC2300, SC2301
LuxPro®	PSDH121, PSD152

*Verify specific application requirements. All trademarks are the property of their respective owners.