



A Division of SUPCO®

*Supco*®

THE RIGHT CHOICE

# Thermostat Guide





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Climate Technology Corporation (CTC) has been manufacturing thermostats for over 20 years. Specifically focused on the HVAC contractor's needs, we have produced reliable, high quality thermostats at a very competitive price.

We are proud to be in a position to offer three distinct product lines that continue to meet the changing needs of the HVAC marketplace.

I Our new, comprehensive line of thermostats offer three styles for the contractor to choose from:

- **Professional Series** thermostats are ideal for the contractor to install a high quality thermostat with basic functionality
- **Performance Series** thermostats provide a premier thermostat, adding functionality that suits the varying demands of end users
- **Ultimate Series** is a touchscreen thermostat providing the end user with any and all functions found in "top of the line" thermostats

All of the programmable thermostats in the Professional, Performance and Ultimate Series comply with Energy Aware Guidelines.

II Recently introduced, our E3 Series Universal thermostats offer a simple approach to providing a complete line of thermostats, while only having to stock three models. Compatible with conventional or heat pump systems, these multi-stage thermostats are designed for easy installation, easy programming and easy operation.

- 53100 Non-Programmable Thermostat
- 53200 5/1/1 Day Programmable Thermostat
- 53300 7 Day Programmable Thermostat

III The 43000 Series thermostats are economically priced and manufactured for quality and reliability. These field proven thermostats include mechanical, digital and programmable thermostats for single stage, conventional systems.

- 43004A/43005A Mechanical Thermostats
- 43054 Digital Thermostat
- 43154 5/2 or 5/1/1 Programmable Thermostat



84210T  
Ultimate Series Thermostat



53200  
5/1/1 Day Programmable Thermostat



43054  
Digital Thermostat

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# PROFESSIONAL SERIES

## 61100N

### Non-Programmable Thermostat

#### Compatibility:

- 1 Heat / 1 Cool Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Solenoid Valves (2-wire)
- Single Stage Heat Pumps
- Air / Ground / Hydronic Exchanger

#### Features:

- 1.5 Square Inch Display with Bright Blue Backlight
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Compressor Short Cycle Protection
- Separate O & B Terminals
- Low Battery Indication
- Front Access Reset Button
- F° / C° Switch
- Gas / Electric Fan Switch
- English / Spanish Packaging and Instruction Card



Actual Size

#### Specifications

Dimensions	3.62" x 4.72" x 1.38"
Electric Rating	24 Volt AC (18-30 Volt AC) 1 Amp Maximum Load per Terminal 3 Amp Total Maximum Load (All Terminals)
AC Power	18-30 Volt AC
DC Power	3.0 Volts DC (2 AA Alkaline Batteries Included)
Control Range	45°F to 90°F (7°C to 32°C)
Display Range	40°F to 99°F (5°C to 37°C)
Accuracy	+/-1°F (+/- .5°C)
Storage Temperature	14°F to 140°F (-10°C to 60°C)
Operating Humidity	5% to 95% Relative Humidity
Terminations	Rc, Rh, B, O, Y1, W1, G, C



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# PROFESSIONAL SERIES

## 62100N

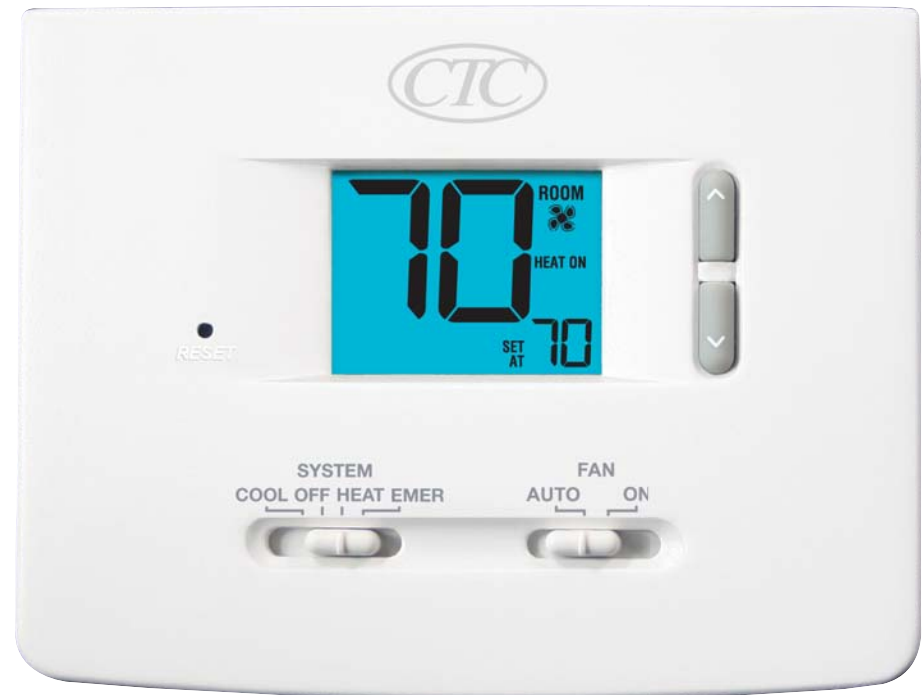
### Non-Programmable Thermostat

#### Compatibility:

- Up to 2 Heat / 1 Cool Conventional or Heat Pump Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Solenoid Valves (2 wire)
- Single Stage Heat Pumps
- Air / Ground / Hydronic Exchanger

#### Features:

- 1.5 Square Inch Display with Bright Blue Backlight
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Compressor Short Cycle Protection
- Separate O & B Terminals
- Auxiliary Heat Indicator
- Low Battery Indication
- Front Access Reset Button
- F° / C° Switch
- Gas / Electric Fan Switch
- English / Spanish Packaging and Instruction Card



Actual Size

#### Specifications

Dimensions	3.62" x 4.72" x 1.38"
Electric Rating	24 Volt AC (18-30 Volt AC) 1 Amp Maximum Load per Terminal 3 Amp Total Maximum Load (All Terminals)
AC Power	18-30 Volt AC
DC Power	3.0 Volts DC (2 AA Alkaline Batteries Included)
Control Range	45°F to 90°F (7°C to 32°C)
Display Range	40°F to 99°F (5°C to 37°C)
Accuracy	+/-1°F (+/- .5°C)
Storage Temperature	14°F to 140°F (-10°C to 60°C)
Operating Humidity	5% to 95% Relative Humidity
Terminations	Rh, Rc, O, B, Y, E/W1, G, C, W2

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# PROFESSIONAL SERIES

## 61152P

### 5/2 Day Programmable Thermostat

#### Compatibility:

- 1 Heat / 1 Cool Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Solenoid Valves (2-wire)
- Single Stage Heat Pumps
- Air / Ground / Hydronic Exchanger

#### Features:

- 1.5 Square Inch Display with Bright Blue Backlight
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Filter Check Monitor
- Adjustable Temperature Differential
- Adaptive Recovery Mode
- Compressor Short Cycle Protection
- Temporary Program Override
- Programmable Extended Hold Mode
- Front Access Reset Button
- F° / C° Switch
- English / Spanish Packaging and Instruction Card



Actual Size

#### Specifications

Dimensions	3.62" x 4.72" x 1.38"
Electric Rating	24 Volt AC (18-30 Volt AC) 1 Amp Maximum Load per Terminal 3 Amp Total Maximum Load (All Terminals)
AC Power	18-30 Volt AC
DC Power	3.0 Volts DC (2 AA Alkaline Batteries Included)
Control Range	45°F to 90°F (7°C to 32°C)
Display Range	40°F to 99°F (5°C to 37°C)
Accuracy	+/-1°F (+/-0.5°C)
Storage Temperature	14°F to 140°F (-10°C to 60°C)
Operating Humidity	5% to 95% Relative Humidity
Terminations	Rc, Rh, B, O, Y1, W1, G, C



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# PROFESSIONAL SERIES

## 62152P

### 5/2 Day Programmable Thermostat

#### Compatibility:

- Up to 2 Heat / 1 Cool Conventional or Heat Pump Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Solenoid Valves (2 wire)
- Air / Ground / Hydronic Exchanger

#### Features:

- 1.5 Square Inch Display with Bright Blue Backlight
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Filter Check Monitor
- Adjustable Temperature Differential
- Adaptive Recovery Mode
- Auxiliary Heat Status Indicator
- Compressor Short Cycle Protection
- Programmable Extended Hold Mode
- Front Access Reset Button
- F° / C° Switch
- English / Spanish Packaging and Instruction Card



Actual Size

#### Specifications

Dimensions	3.62" x 4.72" x 1.38"
Electric Rating	24 Volt AC (18-30 Volt AC) 1 Amp Maximum Load per Terminal 4 Amp Total Maximum Load (All Terminals)
AC Power	18-30 Volt AC
DC Power	3.0 Volts DC (2 AA Alkaline Batteries Included)
Control Range	45°F to 90°F (7°C to 32°C)
Display Range	40°F to 99°F (5°C to 37°C)
Accuracy	+/-1°F (+/-0.5°C)
Storage Temperature	14°F to 140°F (-10°C to 60°C)
Operating Humidity	5% to 95% Relative Humidity
Terminations	Rc, Rh, B, O, Y1, E/W1, G, C, W2



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# PERFORMANCE SERIES

## 71100N

### Non-Programmable Thermostat

#### Compatibility:

- 1 Heat / 1 Cool Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Motor Valves (3-wire)
- Hot Water Solenoid Valves (2-wire)
- Single Stage Heat Pumps
- Air / Ground / Hydronic Exchanger

#### Features:

- 3 Square Inch Display with Bright Blue Backlight
- Auto or Manual Changeover
- Adjustable Temperature Limits
- Indoor or Outdoor Remote Sensing
- Permanent Memory Retains Settings
- Separate User and Installer Reset Buttons
- User Selectable Service Monitors
- Hardwire or Battery Powered
- Multi-Level Keypad Lockout
- Set Point Adjustment Limits
- Compressor Short Cycle Protection
- English / Spanish Packaging and Instruction Card

#### Accessories

- 6390 Remote Indoor Sensor
- 6490 Remote Outdoor Sensor



Actual Size

#### Specifications

Dimensions	3.86" x 5.11" x 1.42"
Electric Rating	24 Volt AC (18-30 Volt AC) 1 Amp Maximum Load per Terminal 3 Amp Total Maximum Load (All Terminals)
AC Power	18-30 Volt AC
DC Power	3.0 Volts DC (2 AA Alkaline Batteries Included)
Control Range	45°F to 90°F (7°C to 32°C)
Display Range	40°F to 99°F (5°C to 37°C)
Accuracy	+/-1°F (+/- .5°C)
Storage Temperature	14°F to 140°F (-10°C to 60°C)
Operating Humidity	5% to 95% Relative Humidity
Terminations	Rc, Rh, O/B/V3, Y1, W1, G, C, S1, S2



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# PERFORMANCE SERIES

## 73200N

### Non-Programmable Thermostat

#### Compatibility:

- Up to 3 Heat / 2 Cool Heat Pump Systems  
Up to 2 Heat / 2 Cool Conventional Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Motor Valves (3-wire)
- Hot Water Solenoid Valves (2-wire)
- Single Stage Heat Pumps
- Air / Ground / Hydronic Exchanger

#### Features:

- 3 Square Inch Display with Bright Blue Backlight
- Auto or Manual Changeover
- Adjustable Temperature Limits
- Indoor or Outdoor Remote Sensing
- User Selectable Service Monitors
- Separate User and Installer Reset Buttons
- Permanent Memory Retains Settings
- Adjustable Balance Points
- Auxiliary Heat Fossil Fuel Option
- Hardwire or Battery Powered
- Multi-Level Keypad Lockout
- Set Point Adjustment Limits
- Compressor Short Cycle Protection
- English / Spanish Packaging and Instruction Card

#### Accessories

- 6390 Remote Indoor Sensor
- 6490 Remote Outdoor Sensor



Actual Size

#### Specifications

Dimensions	3.86" x 5.11" x 1.42"
Electric Rating	24 Volt AC (18-30 Volt AC) 1 Amp Maximum Load per Terminal 5 Amp Total Maximum Load (All Terminals)
AC Power	18-30 Volt AC
DC Power	3.0 Volts DC (2 AA Alkaline Batteries Included)
Control Range	45°F to 90°F (7°C to 32°C)
Display Range	40°F to 99°F (5°C to 37°C)
Accuracy	+/-1°F (+/-0.5°C)
Storage Temperature	14°F to 140°F (-10°C to 60°C)
Operating Humidity	5% to 95% Relative Humidity
Terminations	G, Rc, Rh, W2, O/B/V3, Y1, Y2, W1/E/W3, C, L, S1, S2



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# PERFORMANCE SERIES

## 71157P

### 5/2, 7 Day or Non-Programmable Thermostat

#### Compatibility:

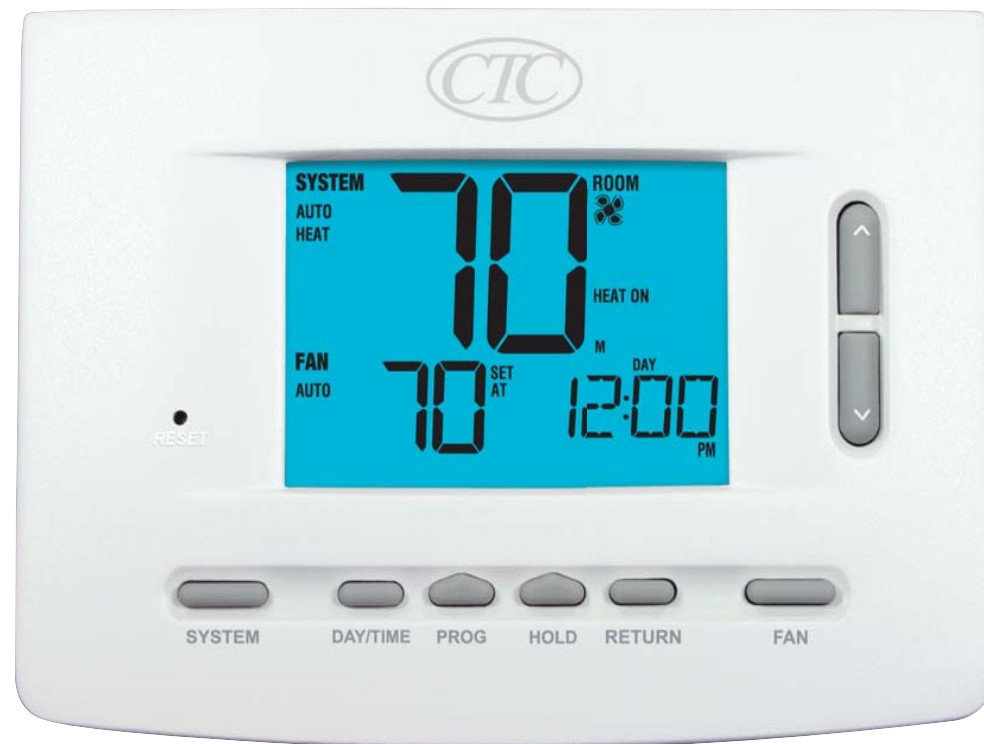
- 1 Heat / 1 Cool Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Motor Valves (3-wire)
- Hot Water Solenoid Valves (2-wire)
- Single Stage Heat Pumps
- Air / Ground / Hydronic Exchanger

#### Features:

- 4 Square Inch Display with Bright Blue Backlight
- Auto or Manual Changeover
- Adjustable Temperature Limits
- Indoor and Outdoor Remote Sensing
- Separate User and Installer Reset Buttons
- Programmable Fan with On or Auto Modes
- Residential or Commercial Mode
- Adaptive Recovery Mode
- Temporary Override Limits
- Hardwire or Battery Powered
- Multi-level Keypad Lockout
- English / Spanish Packaging and Instruction Card

#### Accessories

- 6390 Remote Indoor Sensor
- 6490 Remote Outdoor Sensor



Actual Size

#### Specifications

Dimensions	3.86" x 5.11" x 1.42"
Electric Rating	24 Volt AC (18-30 Volt AC) 1 Amp Maximum Load per Terminal 3 Amp Total Maximum Load (All Terminals)
AC Power	18-30 Volt AC
DC Power	3.0 Volts DC (2 AA Alkaline Batteries Included)
Control Range	45°F to 90°F (7°C to 32°C)
Display Range	40°F to 99°F (5°C to 37°C)
Accuracy	+/-1°F (+/- .5°C)
Storage Temperature	14°F to 140°F (-10°C to 60°C)
Operating Humidity	5% to 95% Relative Humidity
Terminations	Rc, Rh, O/B/V3, Y1, W1, G, C, S1, S2

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# PERFORMANCE SERIES

## 73257P

### 5/2, 7 Day or Non-Programmable Thermostat

#### Compatibility:

- Up to 3 Heat / 2 Cool Heat Pump Systems
- Up to 2 Heat / 2 Cool Conventional Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Motor Valves (3-wire)
- Hot Water Solenoid Valves (2-wire)
- Air / Ground / Hydronic Exchanger

#### Features:

- 4 Square Inch Display with Bright Blue Backlight
- Auto or Manual Changeover
- Adjustable Temperature Limits
- Indoor and Outdoor Remote Sensing
- Separate User and Installer Reset Buttons
- Programmable Fan with On or Auto Modes
- Residential or Commercial Mode
- Auxiliary Heat Fossil Fuel Option
- Temporary Override Limits
- Hardwire or Battery Powered
- Multi-Level Keypad Lockout
- English / Spanish Packaging and Instruction Card

#### Accessories

- 6390 Remote Indoor Sensor
- 6490 Remote Outdoor Sensor



Actual Size

#### Specifications

Dimensions	3.86" x 5.11" x 1.42"
Electric Rating	24 Volt AC (18-30 Volt AC) 1 Amp Maximum Load per Terminal 5 Amp Total Maximum Load (All Terminals)
AC Power	18-30 Volt AC
DC Power	3.0 Volts DC (2 AA Alkaline Batteries Included)
Control Range	45°F to 90°F (7°C to 32°C)
Display Range	40°F to 99°F (5°C to 37°C)
Accuracy	+/-1°F (+/- .5°C)
Storage Temperature	14°F to 140°F (-10°C to 60°C)
Operating Humidity	5% to 95% Relative Humidity
Terminations	G, Rc, Rh, W2, O/B/V3, Y1, Y2, W1/E/W3, C, L, S1, S2



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# ULTIMATE SERIES

## 84210T

### 5/2, 7 Day or Non-Programmable Touchscreen Thermostat

#### Compatibility:

- Up to 4 Heat / 2 Cool Heat Pump Systems
- Up to 3 Heat / 2 Cool Conventional Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Solenoid Valves (2-wire)
- Air / Ground / Hydronic Exchanger

#### Features:

- 10 Square Inch Touchscreen Display with Bright Blue Backlight
- Residential or Commercial Modes
- Indoor or Outdoor Remote Sensing
- Auto or Manual Changeover
- Adjustable Compressor Protection
- Hardwire or Battery Powered
- Adjustable Temperature Limits
- Separate User and Installer Reset Buttons
- Auxiliary Heat Fossil Fuel Option
- Multi-Level Keypad Lockout
- Economizer Control
- Programmable Fan Mode
- English / Spanish Packaging and Instruction Card



#### Accessories

- 6390 Remote Indoor Sensor
- 6490 Remote Outdoor Sensor



Actual Size

#### Specifications

Dimensions	4.13" x 6.13" x 1.38"
Electric Rating	24 Volt AC (18-30 Volt AC) 1 Amp Maximum Load per Terminal 7 Amp Total Maximum Load (All Terminals)
AC Power	18-30 Volt AC
DC Power	3.0 Volts DC (2 AA Alkaline Batteries Included)
Control Range	45°F to 90°F (7°C to 32°C)
Display Range	40°F to 99°F (5°C to 37°C)
Accuracy	+/- 1°F (+/- .5°C)
Storage Temperature	14°F to 140°F (-10°C to 60°C)
Operating Humidity	5% to 95% Relative Humidity
Terminations	A, G, Rc, Rh, W2/AUX2, W3/O/B, Y1, Y2, W1/E/AUX1, C, L, S1, S2

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# E3 SERIES UNIVERSAL THERMOSTATS



## Easy to Install - Easy to Program - Easy to Operate

With a 5 minute installation, real-life programming and simple operation, these thermostats take the stress out of getting comfortable. With conventional and heat pump compatibility built-in, even selecting the right thermostat is simple.

### All E3 Series are Compatible With:

- 2 heat / 2 Cool Systems
- Gas Standing Pilot and Electric Ignition
- Gas and Oil Fired Boilers
- Electric Heat
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Motor Valves (3-wire)
- Hot Water Solenoid Valves (2-wire)
- Heat Pumps with Electric / Gas / Oil Auxiliary
- Air / Ground / Hydro Exchanger

### Specifications

- 20-30 VAC
- Current Draws 0.1 to 1.5 amps
- Temperature Set and Control Range 45°F-95°F (6°C-35°C)
- Operating Differential +/-1°
- Compressor Protection: 3-5 min. Delay on Break
- Terminations: Rh, RC/R, Y, G, W, L, O, B, AE/W2, Y2, C, A



### Easy Installation Features

- Color Coded Wire Terminals
- Built-in Level Bulb
- Break Away Guides for Less Common Terminals
- Screwless Terminals

### Easy to Program & Operate Features

Home Today Override keeps comfort level on those odd days when occupants are home during "Away" period



Away/Asleep/At Home user interface simplifies program periods

Save Away Override allows for energy saving settings when occupants are away during "At Home" period

Energy Guide gives instant feedback when programming

# Precise • Quality • Reliable • Innovative

## 53100 Non-Programmable Thermostat



- Easy Install Features
- Blue Backlight
- Permanent Memory
- Filter Monitor
- System Powered with Battery Backup, or Battery Powered (2 AA Batteries Included)
- Freeze Protection
- 3 Year Warranty

## 53200 5/1/1 Day Programmable Thermostat



- Easy Install Features
- 25% Fewer Programming Steps
- 4 Programs Per Day
- Save Away™ Override
- Blue Backlight
- Permanent Memory
- Filter Monitor
- System Powered with Battery Backup, or Battery Powered (2 AA Batteries Included)
- Freeze Protection
- 3 Year Warranty

## 53300 7 Day Programmable Thermostat



- Easy Install Features
- 25% Fewer Programming Steps
- 4 Programs Per Day
- Save Away™ Override
- Energy Guide™
- Home Today™ Override
- Keyboard Lock
- Blue Backlight
- Permanent Memory
- Filter Monitor
- System Powered with Battery Backup, or Battery Powered (2 AA Batteries Included)
- Freeze Protection
- 3 Year Warranty

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# MORE THERMOSTAT CHOICES

## 43004A / 43005A

### Mechanical Thermostat

All models offer our “quiet switching” design and require no additional sub-base for heating, cooling or heating/cooling installation. All deliver maximum performance at a value price. All mechanical thermostats have a 1 year warranty.

- **Heat / Cool**
- **For Use with Most 4 or 5 Wire 24 VAC Systems and Single-stage Heat Pumps**
- **Adjustable Heat Anticipator**
- **Mercury Free**
- **Terminations: RC, RH, W, Y, G, O, B**



43004A  
Horizontal



43005A  
Vertical

**Common Features/Compatibility for  
43004A, 43005A, 43054 and 43154**

#### Features

- **Latching Relays for System Compatibility**
- **Soft Touch Keypad**
- **Low Battery Indicator**
- **Blue Back Light**
- **Easy, Front Load Battery Access**
- **2 AA Batteries Included**
- **°F/°C Selector**
- **3 Year Warranty**

#### Compatible With:

- **24 VAC Heat/Cool, Heat Only or Cool Only Systems**
- **Gas, Electric or Oil Systems**
- **Millivolt Systems**
- **2 Wire Hydronic Systems**

## 43054

### Digital Thermostat

- **Non-Programmable**
- **Electronic Digital Accuracy**
- **Large, easy-to-read LCD**
- **Filter Change indicator**
- **No Leveling Required**
- **Bi-Metal Freeze Protection**
- **Terminations: RC/O, RH/B, Y, W, G, R**



## 43154

### 5/2 or 5/1 Day Programmable Thermostat

- **For Conventional Heat / Cool or Single-Stage Systems**
- **Pre-Programmed**
- **4 Periods Per Day**
- **Adjustable Cycle Rate**
- **Easy “Front Load” Battery Access**
- **Mechanical Low Temperature Protection**
- **Filter Monitor**
- **Up-Opening Door**
- **Two-Stage Low Battery Warning with Fail Safe Protection**
- **Large, easy-to-read LCD**
- **Terminations: G, RC, RH, Y/O, WB, Y1**



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## GUARDS & ACCESSORIES

### 6390

#### Indoor Remote Sensor

- Simple 2-wire Installation
- Indoor Use Only
- Mounting Hardwire Included
- Accuracy +/- 1°F (+/- .5°C)
- Compatible with CTC Thermostats 71100N, 73200N, 71157P, 73257P, 84210T



### 6490

#### Outdoor Remote Sensor

- Simple 2-wire Installation
- Outdoor Use Only
- Mounting Hardwire Included
- Accuracy +/- 1°F (+/- .5°C)
- Compatible with CTC Thermostats 71100N, 73200N, 71157P, 73257P, 84210T



### Thermostat Guards

PART NO.	DESCRIPTION
BTG-K	Clear Plastic
BTG-EK	Clear Plastic
BTG-RK	Clear Plastic
BTG-UK2	Clear Plastic
BTG-UN	Clear Plastic
BTG-UM	Metal
BTG-UWM	Metal
BTG-54VL	Metal
BTG-54VLW	Metal



BTG-UN

### Magjumpers

- Powerful Magnets
- 20" Wire Length
- Max Voltage: 3VAC/VDC
- Max Current: 5 Amps



MAG1BL



MAG1RD



MAG1GR



MAG1BK



MAG1YL

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