Total Control Thermo Control for THZ-100 Thermostat User's Manual



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Introduction

Congratulations on your purchase of this THZ-100 Thermostat from URC. Enjoy the full functionality of a stand-alone thermostat coupled with the ability, when used with a Total Control system, to be operated from any user interface in the system. No more shivering under the covers, dreading to dare the inevitable cold on the way to the shower; grab the remote and make it nice and toasty, before removing the blanket!

With Thermo Control, you can create a schedule to adjust your home's temperature in any season. This leaves you in control of your energy saving and cost cutting efforts throughout your living environment.

Benefits

- Save up to hundreds of dollars a year when the thermostat is properly configured to automatically heat and cool your home.
- Multiple daily schedules maintain the desired temperatures throughout the day. (Up to four daily schedules.)
- Control any of your home's thermostats from any Total Control interface or iOS devices.
- Intelligent Comfort Recovery anticipates your desired temperature at your scheduled time and intuitively begins heating/cooling early to ensure your desired temperature is reached.

| Programmable Thermostat Setpoint Times & Temperature | | | | | | | |
|--|---|---------------------|--|-------------------|--|--|--|
| Setting | etting Time Setpoint Temperature (Heat) Setpoint Temperature (Cool) | | | | | | |
| Morning | 6:00am | <u><</u> 70 F | | <u>> 78 F</u> | | | |
| Day | 8:00am | Setback at least 8F | | Setup at least 7F | | | |
| Evening | 6:00pm | <u><</u> 70 F | | <u>> 78 F</u> | | | |
| Night | 10:00pm | Setback at least 8F | | Setup at least 4F | | | |

Use the following chart, based on Energy Star's recommendations, to schedule your thermostat and save hundreds of dollars per year.

Courtesy of Energy Star http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGro up&pgw_code=TH



1.0 Installation Instructions

- 1.1 Download and Installation
 - 1. Visit www.universalremote.com. From the Support tab, press Download.
 - 2. Select the **Total Control Thermo Control software** for the THZ-100 Thermostat (ThermoCtrl.exe) to download.
 - 3. Follow the on-screen prompts to download and install the software.



1.2 Opening the Thermo Control Software

To open the newly installed program, press the **Start** button and click **Thermo Control**.

If the program is not listed in the Start Menu, click on **All Programs** and open **Universal Remote Control, Inc.**



All Programs Menu



2.0 Programming the Thermo Control THZ-100 Thermostat Software

2.1 Using Thermo Control

| 🖓 Total Control Admin: THZ-100 Thermostat | NETGEAR | X 0 - |
|--|---|---|
| File View Help | | |
| Select Thermostat : | Temperature Scale Intelligent Comfort Recovery | Current Schedule Program |
| | | Period Start Time Heat To Cool To |
| Edit Programming Edit Programming Edit Programming Edit Programming Select Days For Editing Selected Days Week Days Weekend Days Every Day (excludes Special Days) Special Day Select Periods Morning Start Time Heat To Cool T | e days you would like to change, then choosing time periods and settings to be when finished. Repeat the process as required to set up additional days. Wednesday Thursday Friday Saturday Select a Device MAC IP Description 00: 1F:B8:05:01:3E 192.168.6.160 MRX-10 | Vacation Mode Override Morning Day Evening Night Sunday Morning Day Evening Night Morning Day Evening Night Morning Day Evening Night Tuesday Morning Day Evening Night Wednesday Morning Day Evening Night Wednesday Morning Day Evening Night Thursday Morning Day Evening Night Friday Morning Day Evening Night Friday Morning Day Evening Night Friday R |

As the software opens, a small window titled, "Select a Device" prompts you to do just that.

1. Choose your installed MRX Advanced Network System Controller (**Base station**), from the item list. (Ex. MRX-10)

Note: Now that you have selected your base station, the next time you open the software it will remember your selection. Since the thermostat's configuration is stored in the MRX unit, Thermo Control will automatically upload the configuration for each connected thermostat.

- 2. Click the **Refresh** button to discover the connected base station. The base stations's **Description**, **MAC** and **IP address** populate.
- 3. Highlight the correct base station and press OK.
- 4. The "Select a device" window closes and uploads the thermostat's configuration.



| 🖓 Total Control Admin: THZ-100 Thermostat | | | | | x |
|---|---------------|---------------|---------|--------------|---|
| File View Help | | | | | |
| Temperature Scale B Intelligent Comfort Recovery | Current Sched | lule Program | F | | |
| Select Inermostat (Home Theater) | Period | Start Time | Heat To | Cool To | |
| Edit Programming | Vacation N | Aode Override | | | |
| Edit the thermostat schedule by selecting the days you would like to change, then choosing time periods and settings to be used by those days. Cick Apply to Schedule when finished. Repeat the process as required to set up additional days. | Morning | ; | | | |
| Celect Days For Editing | Day | 08:00 AM | 62ºF | 85%F | |
| © Selected Days ♥ Sunday ■ Monday ■ Tuesday ■ Wednesday ■ Thursday ■ Friday ■ Saturday | Evening | ; | | | |
| © Week Days | Sunday - | | | | |
| © Weekend Days | Morning | 06:00 AM | 70°F | 78ºF | |
| © Every Day (excludes Special Days) | Day | 08:00 AM | 62ºF | 85%F | |
| 🔘 Special Day 🚽 | Evening | 06:00 PM | 70°F | 78ºF | |
| - Select Periods - C | Night | 10:00 PM | 62°F | 82°F | |
| | Monday - | | | | |
| Start Time 06 • 00 • AM • Start Time 08 • 00 • AM • Start Time 06 • 00 • PM • Start Time 10 • 00 • PM • | Morning | 06:00 AM | 70°F | 78°F | |
| Heat To 70% V Heat To 62% V Heat To 70% V Heat To 62% V | Day | 08:00 AM | 629F | 85°F | |
| | Night | 10:00 PM | 62ºF | 82ºF | - |
| | Tuesday - | | | | - |
| Apply to Schedule | Morning | 06:00 AM | 70°F | 78ºF | |
| | Day | 08:00 AM | 62ºF | 85°F | |
| | Evening | 06:00 PM | 70°F | 78ºF | |
| | Night | 10:00 PM | 62ºF | 82ºF | |
| | Wednesda | y | 70.05 | 70.05 | |
| | Day | 06:00 AM | 709F | 78%F | |
| | Evening | 06:00 PM | 70°F | 78ºF | |
| | Night | 10:00 PM | 62ºF | 82ºF | |
| | Thursday | | | | |
| | Morning | 06:00 AM | 70°F | 78ºF | |
| | Day | 08:00 AM | 62ºF | 85°F | |
| | Evening | 10:00 PM | 709F | /8%+ 82%= | |
| | Friday | 10.00 FM | 021 | 521 | |
| | Morning | 06:00 AM | 70 °E | 78.ºE | |
| | Day | 08:00 AM | 62ºF | 85°F | |
| | Evening | 06:00 PM | 70°F | 78ºF | |
| | Night | 10:00 PM | 62ºF | 82ºF | _ |
| | Caturday | | | | |
| | | | | | |

Select Thermostat:

Lists each THZ-100 installed in your home. Select the

thermostat that you would like to edit from the drop-down box.

Temperature Scale: Select the preferred scale; Fahrenheit or Celsius.

Fahrenheit

Temperature scale that defines the freezing point at 32 degrees and the boiling point at 212 degrees fahrenheit. Select the Fahrenheit option to choose this scale.

Select Thermostat

Α

Thermostat (Home Theater)

Temperature Scale

Fahrenheit

• Celsius

Temperature scale that defines the freezing point at 0 degrees and the boiling point at 100 degrees Celsius. Select the **Celsius** option to choose this scale.

Intelligent Comfort Recovery

When there are significant setpoint differences, the Intelligent Comfort Recovery learns how long a home takes to heat or cool. The thermostat adjusts and turns on the heating/cooling system to reach a setpoint at a certain time to provide a smooth comfortable transition.

- Intelligent Comfort Recovery Enabled Disabled
- Enabled: Select this option to enable the Intelligent Comfort Recovery feature.
- **Disabled**: Select this option to disable the Intelligent Comfort Recovery feature.



Celcius



Thermostat Scheduling was designed to adjust the temperature according to a series of programmed settings that take effect at different times of the day.

| -Edit Programming - | | | | | | | | |
|---------------------|---------------------------------|-------------------------------------|------------------|---|--------------------------------------|---------------------------------|--|--|
| D | Edit the therm used by those | ostat schedule t days. Click App | by selecting the | days you would like when finished. Rep | to change, then eat the process a | choosing time as required to | periods and settings to be set up additional days. | |
| -Select Days For E | diting | | | | | | | |
| Selected Day | /s 🛛 👽 Sunday | Monday | Tuesday | Wednesday | Thursday | 🔲 Friday | Saturday | |
| 🔘 Week Days | | | | | | | | |
| Weekend Da | ys | | | | | | | |
| 🔘 Every Day (e | excludes Special D |)ays) | | | | | | |
| Special Day | | | - | | | | | |

Edit Programming

This option allows you to edit days by week, weekends, every day, selected days or special day (Vacation Mode).

Select Days For Editing

- 1. Selected Days: Check the days you would like to edit
- 2. Week Days: Check this option to group weekdays
- 3. Weekend Days: Check this option to group weekends
- 4. Every Day (excludes Special Days): Check this option group everyday with the exception of Special Days
- 5. Special Day: Check this option to edit your special day or vacation day

| Select Periods ✓ Morning Start Time 06 ▼ 00 ▼ AM ▼ Heat To 70 F ▼ Cool To 78 F ▼ | ✓ Day Start Time 08 00 AM Heat To 62°F ▼ Cool To 85°F ▼ | ✓ Evening Start Time 06 ▼ 00 ▼ PM ▼ Heat To 70 年 ▼ Cool To 78 年 ▼ | ✓ Night Start Time 10 ▼ 00 ▼ PM ▼ Heat To 62°F ▼ Cool To 82°F ▼ |
|--|---|---|---|
| | Apply to | Schedule | |

Select Periods

This section allows the programmer to manually edit the **Start Time, Heat To** and **Cool To** by the four periods in the day: **Morning, Day, Evening** and **Night**.

- 1. Select a period of day to modify: Morning, Day, Evening, Night.
- 2. Within the Start Time drop-down boxes, select the desired time associated period.
- 3. Within the **Heat To** (Heat Mode usually used in the winter) drop-down box, select the desired temperature.
- 4. Within the **Cool To** (Cool Mode usually used in the summer) drop-down box, select the desired temperature.
- 5. After all the programming changes have been made, click the **Apply to Schedule** button.



Current Schedule Programming

This option provides a snapshot of your current schedule separated per weekday into four periods: Morning, Day, Evening and Night.

Note: If you don't like the temperature for a certain day or time period, you can quickly change it.

- 1. Select or highlight the day you would like to edit.
- 2. Make your changes within the **Edit Programming** and the **Select Periods** section.
- 3. Once all your changes are made, press Apply to Schedule.

| Current Sched | ule Program | F | | |
|---------------|---------------|---------|---------|---|
| Period | Start Time | Heat To | Cool To | |
| Vacation N | 1ode Override | | | |
| Morning | ; | | | |
| Day | 08:00 AM | 62ºF | 85°F | |
| Evening | ; | | | |
| Night | ; | | | |
| Sunday — | | | | |
| Morning | 06:00 AM | 70°F | 78°F | |
| Day | 08:00 AM | 62ºF | 85°F | |
| Evening | 06:00 PM | 70°F | 78°F | |
| Night | 10:00 PM | 62ºF | 82ºF | |
| Monday - | | | | |
| Morning | 06:00 AM | 70ºF | 78ºF | |
| Day | 08:00 AM | 62ºF | 85°F | |
| Evening | 06:00 PM | 70°F | 78°F | |
| Night | 10:00 PM | 62ºF | 82ºF | Ε |
| Tuesday - | | | | |
| Morning | 06:00 AM | 70ºF | 78ºF | |
| Day | 08:00 AM | 62ºF | 85°F | |
| Evening | 06:00 PM | 70°F | 78°F | |
| Night | 10:00 PM | 62ºF | 82ºF | |
| Wednesda | у | | | |
| Morning | 06:00 AM | 70ºF | 78°F | |
| Day | 08:00 AM | 62ºF | 85°F | |
| Evening | 06:00 PM | 70°F | 78°F | |
| Night | 10:00 PM | 62ºF | 82°F | |



3.0 Download to your THZ-100 Thermostat

Once you have finished your adjustments, you will need to download the changes to the thermostat.

- 1. Select **File** then **Save to Device.** The download instantly begins.
- 2. When the download reaches 100% a **Download Success** window opens. Press **Ok**.

| 📵 Total Control Admin: TH2 | Z-100 Thermostat |
|----------------------------|---------------------|
| File View Help | |
| Get From Device | |
| Save to device | it (Home Theater) 🔹 |
| Exit | |

Note: Keep in mind, if the thermostat is currently in use, the download will be delayed until the user is done adjusting the temperature.

| | Temperature Scale Intelligent Comfort Decouery | Current Schedu | ule Program | | |
|---|---|---|--|--|---|
| ct Thermostat : Thermostat (Home Theater) | Fahrenheit Ceicus Enabled Disabled | Period | Start Time | Heat To | Cool To |
| ct Thermostat : Thermostat (Home Theater) • It Programming Edit the thermostat schedule by selecting t used by those days. Click Apply to Schedul Select Days For Editing Selected Days Sunday Monday Tuesda Week Days Weekend Days Every Day (excludes Special Days) Special Day • Select Periods Morning Start Time 06 • 00 • AM • Heat To 62% Cool To 78% • Cool To 85% | Temperature Scale Intelligent Comfort Recovery Pahrenhet Celous Total Progreg Thursday Priday Start Time Start Time 00 • 04 • 100 • | Current Scheds Period Vacation M Morning Day Evening Night Sunday Morning Day Evening Night Morning Day Evening Night Tuesday Morning Day Evening Night Wednesday Morning Day Evening Night Vednesday Morning Day Evening Night | Ae Program Start Time Start Time Color Override Color Override Color OAM Cod | Heat To 62年 70年 62年 | Cool To 85 78 85 78 85 78 82 78 82 78 82 78 82 78 82 78 78 82 78 78 82 78 78 82 78 78 82 78 78 85 78 78 85 78 78 85 78 78 85 78 78 85 78 78 78 85 78 78 78 78 78 78 78 78 78 78 |
| | | Thursday – Morning Day Evening Night Friday – | 06:00 AM 08:00 AM 06:00 PM 00:00 PM 00:000 PM 00:0000 PM 00:0000 PM 00:000 PM 00:000 PM 00:000 PM 00:0000 PM 00:000 PM 00 | 70年 62年 70年 62年 | 78# 85# 78# 82# |
| | | Day Evening | 08:00 AM 08:00 AM 06:00 PM | 70年 62年 70年 | 78年 78年 |



Advanced Settings for ADVANCED USERS Total Control Admin: THZ-100 Thermostat These settings should ONLY BE USED BY QUALIFIED Help File View INDIVIDUALS. Improper settings may cause malfunction and Show, Advanced Settings damage to the climate control systems. 1. Click on View, then Show Advanced Settings. х Advanced Settings 2. A window opens to warn you of the potential damage These settings should only be changed by qualified individuals. Improper settings may cause malfunction an unqualified programmer/user may cause. and damage to the climate control systems. 3. IF YOU ARE QUALIFIED, press View Settings. Are you sure you want to view Advanced Settings? 4. The Advanced Settings screen opens. View Settings No Thanks 08:00 AM 62* Advanced Settings Ψ× 06:00 PM 70 2 Multistage HVAC Setting 621 10:00 PM These settings should only be changed by qualified individuals. Improper settings may cause malfunction and damage to the climate control system 2nd Stage Heating Offset -2°F -06:00 AM 70 5°F ÷ 2nd Stage Cooling Offset HVAC System Type : Conventional (Oil, Gas, or Electric) Ŧ 08:00 AM 621 -2ºF Auxiliary Heat Offset HVAC System Stages : 06:00 PM 70 1 Cooling ▼ 1 Heating ▼ NONE 10:00 PM 62 Filter Change Reminder Auto Mode Temperature Override/Hold Behavior Display Reminder Every Never Months Maintain Exact Temperature Within 2ºF -06:00 AM 70 Button Lockout System Cycle Limit 08:00 AM 62* 06:00 PM 70 Use Pass-code Lockout Maximum Cycles per Hour : Heating 624 10:00 PM Coolina Set Point Limiter Heat to limit must be higher than or equal to the 06:00 AM -70 Limit Heat To Set Point to 95°F highest scheduled set point. Compressor Protection 08:00 AM 621 Cool to limit must be lower than or equal to the Limit Cool To Set Point to 40 °F -Minutes 06:00 PM 70 Compressor Delay lowest scheduled set point. 10:00 PM 62

HVAC System Type:

Shows three different HVAC System Types. **Conventional** (Oil, Gas, or Electric), **Heat Pump** and **Radiant Floor**. Select the system type from the drop-down box.

HVAC System Stages:

Shows two different drop-down boxes; one for **Cooling** and one for **Heating**.

- Within the Cooling drop-down box you have three different HVAC System Stages to choose from: None, 1 Cooling (Single Stage) and 2 Cooling (Dual Stage). Select the Cooling system stage from the drop-down box.
- 2. Within the **Heating** drop-down box you have three different **HVAC System Stages** to choose from: **None, 1 Heating** and **2 Heating**. Select the **Heating** system stage from the drop-down box.

Filter Change Reminder

Determines the amount of time between Filter Change Reminder in months

- 1. Click the **Display Reminder Every** drop-down box.
- 2. Select the **number of months** before the reminder is displayed.



Button Lockout

Allows you to add a 4 digit **lockout code** when enabled. Locking the keypad is a good idea to avoid unwanted people from controlling the thermostat. Check the **Use Pass-Code Lockout** to enable the Lockout feature.

Set Point Limiter

This feature allows you to set a **heat limit** and a **cool limit** by manually entering a limit point for both. This prevents users from making temperature adjustments outside of the limit range.

- 1. Click the Limit Heat To Set Point drop-down box to select a limit point.
- 2. Click the Limit Cool To Set Point drop-down box to select a limit point.

Multistage HVAC Setting

When a two stage heating or two stage cooling system is selected, these options are available for setting. This value determines when the thermostat will call for 2nd stage heating/cooling.

2nd Stage Heating Offset: This feature is enabled if a 2 Heating system is in use.

2nd Stage Cooling Offset: This feature is enabled if a 2 Cooling system is in use.

Auxiliary Heat Offset: Enabled when HVAC System type "Heat pump with auxiliary heat" is chosen. This sets the value for **Auxiliary Heat Offset**.

Auto Mode Temperature Override/Hold Behavior

This option determines how the thermostat behaves when the preset temperature is adjusted while in **Auto Mode**. Refer to User manual for Auto Mode description.

Maintain Exact Temperature Within

This feature allows the thermostat to limit compressor cycles and reduce energy consumption by maintaining the temperature within the variance chosen for this setting. When this parameter is set to 2°, the thermostat will not engage the compressor (turn on) until the temperature is at least 2° from the desired set-point.

Example

Maintain Exact Temperature Within: **4°** Set-Point: **74°** While in Heat Mode the thermostat will not engage the heat until temperature reaches 70°. While in Cool Mode the thermostat will not engage the A/C until temperature reaches 78°.

System Cycle Limit

Maximum Cycles per Hour

This option sets the value for maximum number of heating or cooling cycles that may be called for per hour.

- Click the Heating drop-down box to set the Maximum Cycles per hour.
- Click the Cooling drop-down box to set the Maximum Cycles per hour.

Compressor Protection/Compressor Delay (set in minutes)

This option sets the minimum number of minutes between successive **heating or cooling activation cycles**, including activation of a heating cycle following a cooling cycle or a cooling cycle following a heating cycle.

1. Click the **Compressor Delay** drop-down box to set the delay time in minutes.







500 Mamaroneck Avenue Harrison, NY 10528 Phone: (914) 835-4484 Fax: (914) 835-4532 www.universalremote.com