

Blue Humidity Touchscreen Universal Thermostat with Humidity/Dehumidity Control and Automatic Heat/Cool Changeover Option

Single Stage, Multi-Stage, Heat Pump
Installation and Operating Instructions

Save these instructions for future use!

FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

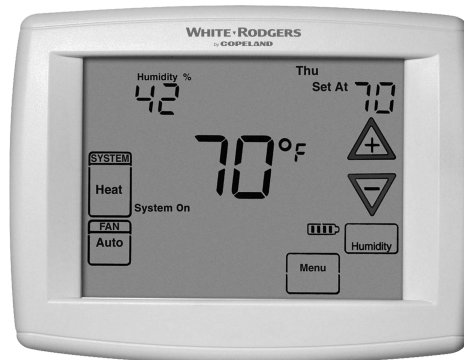
Model	Programming Choices		
1F95-1291	7 Day	5+1+1 Day	Non-Programmable

APPLICATIONS

THERMOSTAT APPLICATION GUIDE

Thermostat Configuration Option	Thermostat Applications	Maximum Stages Heat/Cool
Single Stage 1 No Heat Pump (SS1)	Gas, Oil, Electric, Heat Only, Cool Only or Heat/Cool Systems, 2 or 3 wire Hydronic Zone (Hot Water or Steam) Systems, 24 Volt or Millivolt	1+1
Multi Stage 2 No Heat Pump (MS2)		2+2
Heat Pump 1 Single Stage Compressor Heat Pump (HP1)	Single Stage Compressor Heat Pump Systems - up to 2 Stages Aux./Emergency Heat	3+1
Heat Pump 2 Two Stage or Two Compressor Heat Pump (HP2)	Two Stage or Two Compressor Heat Pump systems - up to 2 Stages Aux./Emergency Heat	4+2

1F95-1291 Humidity Control Touchscreen Thermostat



SPECIFICATIONS

Electrical Rating:

Battery Power	mV to 30 VAC, NEC Class II, 50/60 Hz or DC	
Input-Hardwire	20 to 30 VAC	
Terminal Load	1.5A per terminal, 2.5A maximum all terminals combined	
Setpoint Range	45 to 99°F (7 to 37°C)	
Rated Differentials:	Fast.	Slow
Heat (Single Stage/Multi-Stage)	0.6°F	1.5°F
Cool (Single Stage/Multi-Stage)	1.2°F	1.7°F
Heat Pump	1.2°F	1.7°F
Emer Heat	0.6°F	1.7°F
Operating Ambient	32°F to +105°F (0 to +41°C)	
Operating Humidity	90% non-condensing max.	
Shipping Temperature Range	-40 to +150°F (-40 to +65°C)	
Dimensions Thermostat	4-9/16"H x 5-13/16"W x 1-3/16"D	
Humidity Setpoint Range	5 to 50%	
Dehumidification Setpoint Rang	40 to 95%	

CAUTION

To prevent electrical shock and/or equipment damage, disconnect electric power to system at main fuse or circuit breaker box until installation is complete.

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ATTENTION: MERCURY NOTICE

This product does not contain mercury. However, this product may replace a product that contains mercury. **Mercury and products containing mercury must not be discarded in household trash. Do not touch any spilled mercury.** Wearing non-absorbent gloves, clean up any spilled mercury and place in a sealed container. For proper disposal of a product containing mercury or a sealed container of spilled mercury, place it in a suitable shipping container. Refer to www.thermostat-recycle.org for location to send the product containing mercury.

WARNING

For California Residents: This product contains a chemical known to the state of California to cause cancer and birth defects and other reproductive harm.

⚠ WARNING

Thermostat installation and all components of the control system shall conform to Class II circuits per the NEC code.


Remove Old Thermostat

Before removing wires from old thermostat, mark wires for terminal identification so the proper connections will be made to the new thermostat.

Installing New Thermostat

1. Pull the thermostat body off the thermostat base. Forcing or prying on the thermostat will cause damage to the unit.
2. Place base over hole in wall and mark mounting hole locations on wall using base as a template.
3. Move base out of the way. Drill mounting holes. If you are using existing mounting holes and the holes drilled are too large and do not allow you to tighten base snugly, use plastic screw anchors to secure the base.
4. Fasten base snugly to wall using mounting holes shown in Figure 1 and two mounting screws. Leveling is for appearance only and will not affect thermostat operation.
5. Connect wires to terminal block on base using appropriate wiring schematic.
6. Push excess wire into wall and plug hole with a fire resistant material (such as fiberglass insulation) to prevent drafts from affecting thermostat operation.
7. Carefully line the thermostat up with the base and snap into place.

Battery Location

2 "AA" alkaline batteries are included in the thermostat at the factory with a battery tag to prevent power drainage. Remove the battery tag to engage the batteries. To replace batteries, set system to **OFF**, remove thermostat from wall and install the batteries in the rear along the top of the thermostat (see Figure 1). For best results, use a premium brand "AA" alkaline battery such as Duracell® or Energizer®. If the home is going to be unoccupied for an extended period (over 3 months) and  is displayed, the batteries should be replaced before leaving.

Power Stealing Switches

The Power Stealing Switches (Fig. 1) should be left in the **"On"** position for most systems. The information in the following table details the thermostat power method and switch options.

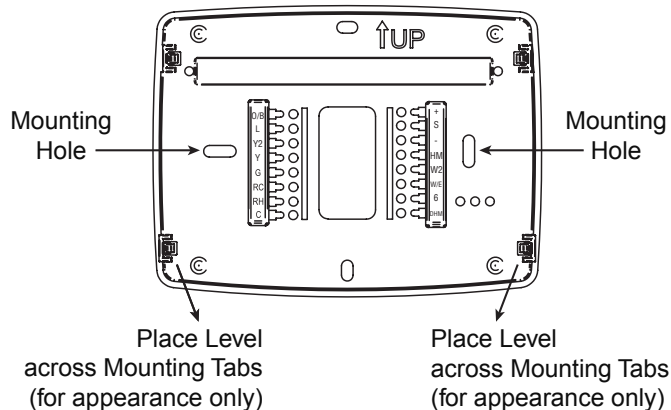
Thermostat Power Method	Switch Position/Description
Battery Powered , no 24 Volt system power available.	Switches "On" , thermostat runs on batteries.
Hardwired with Battery Back-up , for 24 Volt systems with common connection from transformer to "C" terminal on thermostat.	Switches "On" , thermostat runs on power directly from transformer with battery back-up.
*Battery Powered with Power Stealing Assist , for 24 Volt systems with no common connection from transformer to "C" terminal on thermostat.	Switches "On" , thermostat runs on batteries and supplemental power drawn through the heat or cool circuit.

*Power Stealing Assist is very reliable to increase battery life, but on a small number of heating or cooling systems with high impedance electronic modules you may observe one of the following conditions:

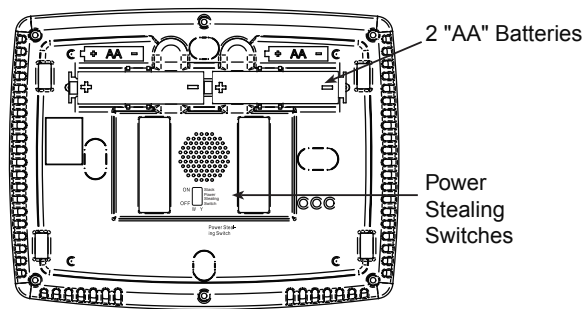
1. The furnace draft inducer motor may run with no call for heat.
2. The furnace fan may turn on with no call for heat or may not turn off.
3. The furnace may not turn off when the call for heat ends.
4. The air conditioner may not turn off when the call for cool ends.

If the Power Stealing Assist method is not compatible with your system, place the Power Stealing Switches to **"Off"**. This cancels Power Stealing Assist, operates the thermostat on batteries and corrects the condition.

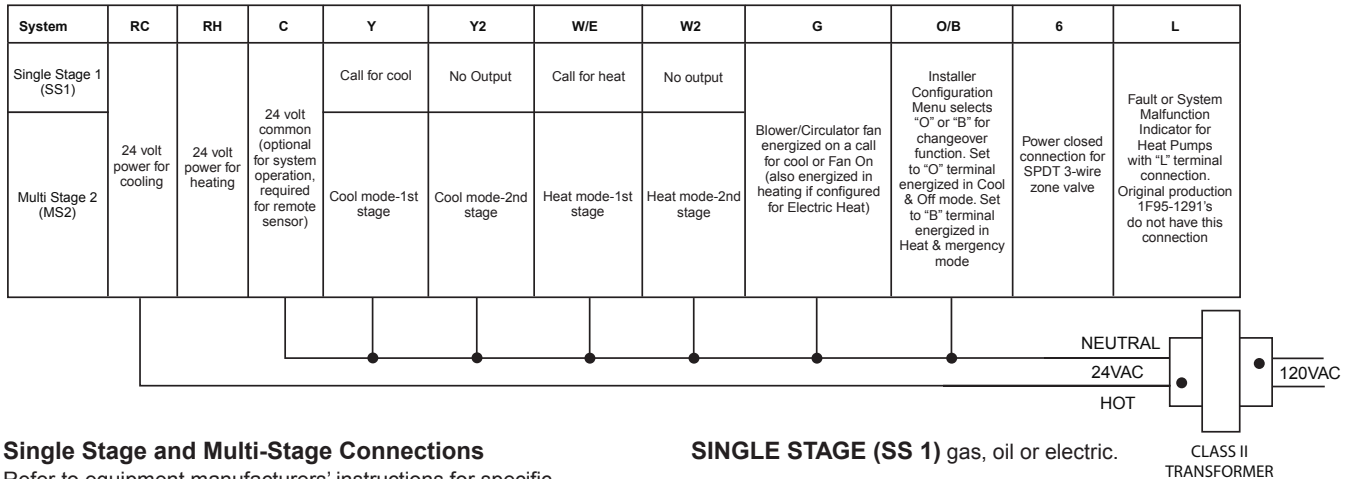
Figure 1 – Thermostat Base Multi-Stage 1F95-1291



Rear view of thermostat



**Figure 2 – Single Stage or Multi-Stage System
(No Heat Pump) with Single Transformer**



Single Stage and Multi-Stage Connections

Refer to equipment manufacturers' instructions for specific system wiring information.

This thermostat is designed to operate a single-transformer or two-transformer system.

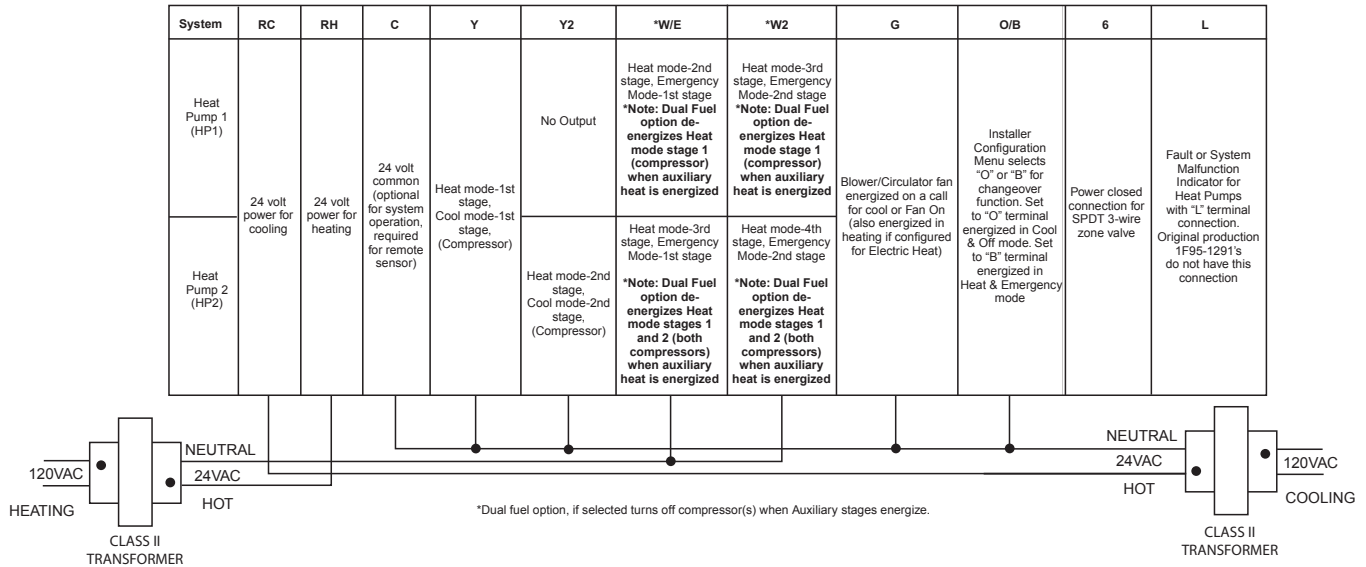
You can configure the thermostat for use with the following fossil fuel systems:

SINGLE STAGE (SS 1) gas, oil or electric.

MULTI-STAGE (MS 2) gas, oil or electric.

After wiring, see INSTALLER CONFIGURATION section for proper thermostat configuration.

Figure 3 – Heat Pump Systems



Heat Pump Connections

If you do not have a heat pump system, refer to figures 3 & 4. Refer to equipment manufacturers' instructions for specific system wiring information.

You can configure the thermostat for use with the following heat pump systems.

HEAT PUMP TYPE 1 (HP 1). Single stage compressor system; gas or electric backup.

HEAT PUMP TYPE 2 (HP 2). Multi-stage compressor or two compressor system with gas or electric backup.

After wiring, see INSTALLER CONFIGURATION section for proper thermostat configuration.

Figure 4 – Humidity and Sensors

HM	DHM	+	S	-
Humidification Terminal, Energizes on call for heat if Humidity setpoint is above room humidity. Can also be used to provide humidification independent of a call for heat and/or in cooling mode if Automatic Humidification is selected in Configuration Menu item #42	De-energizes on call for Dehumidification to lower the fan speed. The DHM terminal is only used on systems with a compatible dehumidification feature that have the required terminal connection on the control module or have a relay installed to lower the fan speed	Supply voltage to remote temperature sensor	Remote temperature sensor signal	Supply voltage to remote temperature sensor

Dehumidification wiring without an electronically controlled variable speed blower system for single stage compressor system only.

If you have a single stage compressor system see the diagram below. A relay (customer provided) should be installed as shown in Fig 7 to switch the fan speed to the next lower speed on a call for dehumidification from the thermostat. The reduction in air flow allows the coil to remove more humidity from the air. The relay should be rated for blower motor load. Since this configuration reduces the air flow in cooling, the anti-freeze-up control (White-Rodgers CAFC)

or equivalent is recommended. The CAFC prevents the air conditioning coil from freezing due to low air flow, dirty filter, low refrigerant pressure, etc. The CAFC snaps onto the suction line close to the evaporator coil as possible and breaks the compressor circuit when the suction line drops below 38°F and re-make the circuit at 46°F.

Figure 5 – Typical Wiring for Dehumidifier System

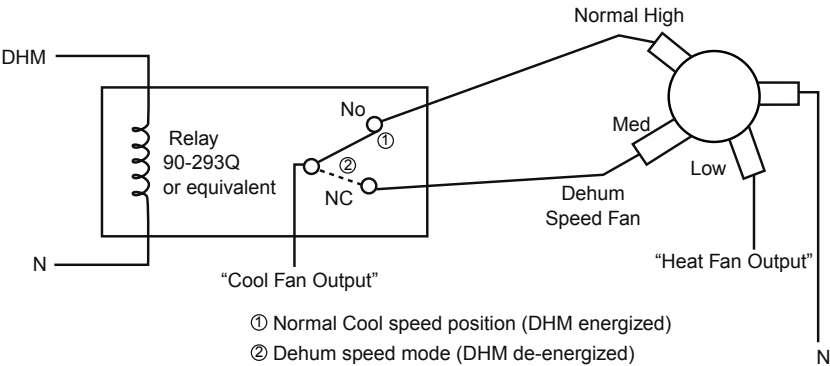


Figure 6 – Typical Wiring for 120V Humidifier System

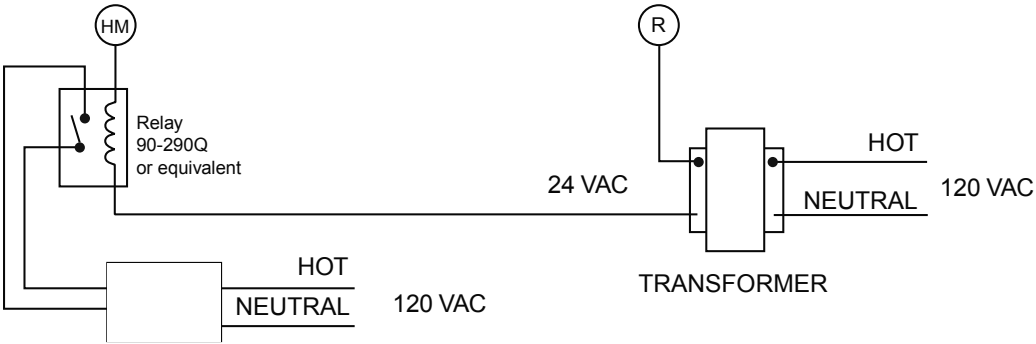
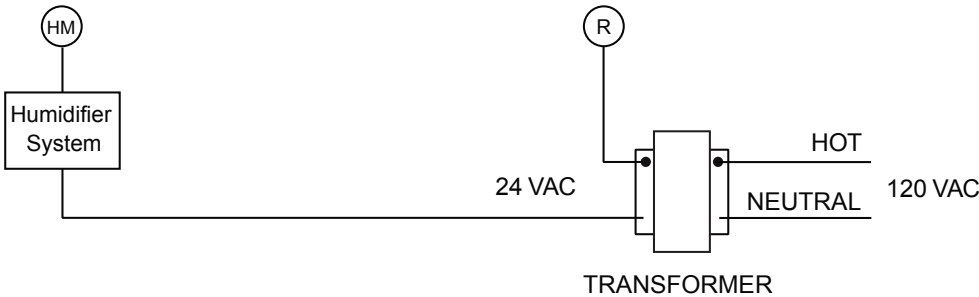
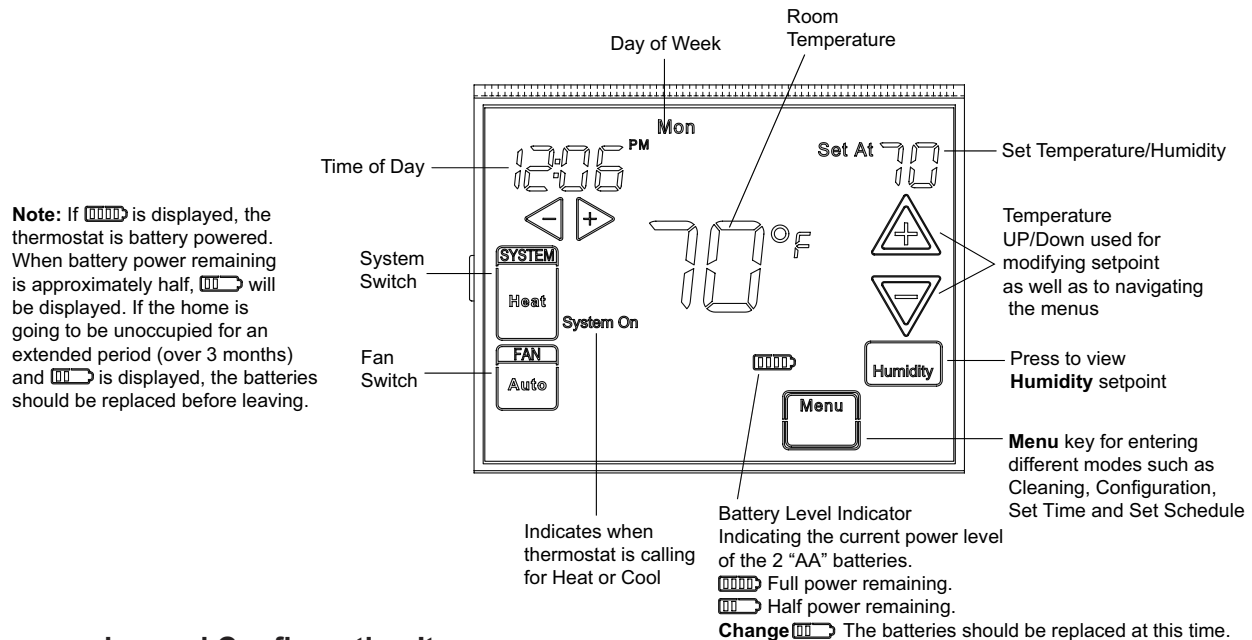


Figure 7 – Typical Wiring for 24V Humidifier System



Home Screen Description

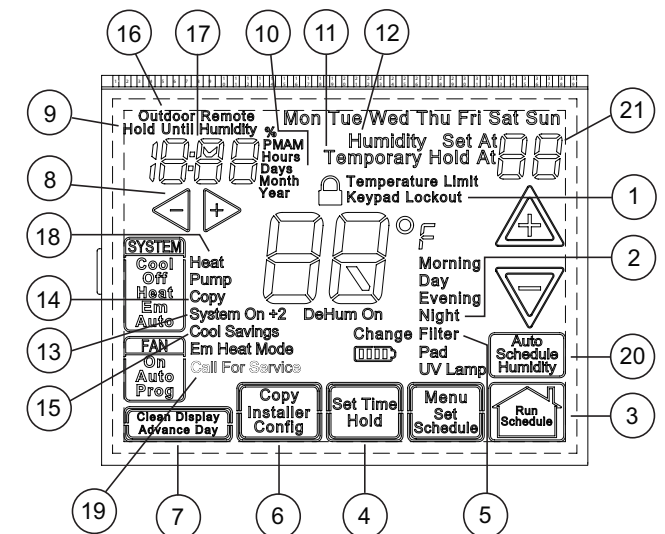
Figure 8 – Home Screen Display



Programming and Configuration Items

- ① Displays and "Keypad Lockout" when in keypad lockout mode.
Displays and "Temperature Limit" and "Keypad Lockout" when limited range is activated and locked.
Displays only "Temperature Limit" when limited range is activated.
- ② Indicates period of day being programmed.
- ③ RUN SCHEDULE (run program) key.
- ④ SET TIME key or HOLD temperature key.
- ⑤ Displays "Change Filter"/"Change Pad"/"Change UV Lamp" when the system has run for the programmed filter/humidity pad/UV lamp time period as a reminder to change or clean your filter/humidity pad or to replace UV lamp.
- ⑥ COPY key or INSTALLER CONFIG key.
- ⑦ CLEAN DISPLAY key allows 30 seconds to wipe off the display or ADVANCE DAY key for programming.
- ⑧ Used in programming to set time and in configuration menu to change selections.
- ⑨ "Hold Until" indicates the time when a temporary hold period will end.
- ⑩ "Hours" and "Days" displays during steps in installer configuration.
- ⑪ The words "Hold At" are displayed when the thermostat is in the HOLD mode. "Temporary Hold At" is displayed when the thermostat is in a temporary HOLD mode.
- ⑫ "Humidity" indicates that the "Set At" display is Humidity setpoint.
- ⑬ "System On" indicates when heating or cooling stage is energized. "+2" indicates when a second stage is energized.
- ⑭ "Copy" indicates the copy program feature is being used during programming.

Figure 9 – Programming & Configuration Items



- ⑮ A steady "Cool Savings" display indicates the feature is enabled in the installer menu. A flashing "Cool Savings" display indicates the feature is active.
- ⑯ "Remote" indicates that the indoor remote temperature sensor, is being accessed. "Outdoor Remote" indicates the outdoor remote temperature sensor is being accessed.
- ⑰ Display time, remote temperature or humidity.
- ⑱ "Heat Pump" displays when the system configuration is set in HP1/HP2.
- ⑲ "Call for Service" indicates a fault in the heating/cooling systems. It does not indicate a fault in the thermostat.
- ⑳ **Auto Schedule** key for Auto Schedule function or **Humidity** key to display current Humidity and Humidity setpoint.
- ㉑ In Configuration Menu, shows screen number. If blank, thermostat is earlier model and requires instruction sheet 37-6914E.

INSTALLER/CONFIGURATION MENU

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Installer Note: For heat pump systems, Configuration Menu items 1 and 3 must be set to match the heat pump system.

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INSTALLER/CONFIGURATION MENU

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 switches the option to GAS.

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INSTALLER/CONFIGURATION MENU

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Gzip Compressor Optimization

Power Method	Power Stealing Switches ON (Factory Default)		Power Stealing Switches ON (Factory Default)	
	Backlight Option OFF (Factory Default)	Backlight Option ON	Backlight Option OFF (Factory Default)	Backlight Option ON
Battery Only (before thermostat installation or mV heat systems)	⌚ [{ ^ } ⌚] ⌚	⌚ [{ ^ } ⌚] ⌚	⌚ [{ ^ } ⌚] ⌚	⌚ [{ ^ } ⌚] ⌚
Common Attached to "C" Terminal	⌚ [{ ^ } ⌚] ⌚	⌚ [{ ^ } ⌚] ⌚	⌚ [{ ^ } ⌚] ⌚	⌚ [{ ^ } ⌚] ⌚
Battery with Power Stealing on "W/E" and "Y"	⌚ [{ ^ } ⌚] ⌚	⌚ [{ ^ } ⌚] ⌚	⌚ [{ ^ } ⌚] ⌚	⌚ [{ ^ } ⌚] ⌚
Battery with "W/E" and "Y" but system does not allow Power Stealing*	⌚ [{ ^ } ⌚] ⌚	⌚ [{ ^ } ⌚] ⌚	⌚ [{ ^ } ⌚] ⌚	⌚ [{ ^ } ⌚] ⌚

*** Power Stealing Backlight Notes:**

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G-E Comfort Alert with Active Protection

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OPERATING THERMOSTAT _____

Manual Operation for Non-Programmable Mode

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Manual Operation (Bypassing the Program) Programmable Mode

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PROGRAMMING

Set Current Time and Day

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Enter the Heating Program

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PROGRAMMING

Worksheet for Re-Programming 5+1+1 and 7 Day Program

Heating Program	Wake Up (Morning)			Leave For Work (Day)			Return Home (Evening)			Go To Bed (Night)		
			Fan			Fan			Fan			Fan
MON	6:00 AM	70°F	Auto	8:00 AM	62°F	Auto	5:00 PM	70°F	Auto	10:00 PM	62°F	Auto
TUE												
WED												
THU												
FRI												
SAT	6:00 AM	70°F	Auto	8:00 AM	62°F	Auto	5:00 PM	70°F	Auto	10:00 PM	62°F	Auto
SUN	6:00 AM	70°F	Auto	8:00 AM	62°F	Auto	5:00 PM	70°F	Auto	10:00 PM	62°F	Auto

Cooling Program	Wake Up (Morning)			Leave For Work (Day)			Return Home (Evening)			Go To Bed (Night)		
			Fan			Fan			Fan			Fan
MON	6:00 AM	75°F	Auto	8:00 AM	83°F	Auto	5:00 PM	75°F	Auto	10:00 PM	78°F	Auto
TUE												
WED												
THU												
FRI												
SAT	6:00 AM	75°F	Auto	8:00 AM	83°F	Auto	5:00 PM	75°F	Auto	10:00 PM	78°F	Auto
SUN	6:00 AM	75°F	Auto	8:00 AM	83°F	Auto	5:00 PM	75°F	Auto	10:00 PM	78°F	Auto

Wired Remote Temperature Sensing

One remote temperature sensor can be installed indoor or outdoor and connected to the thermostat by a maximum cable length of 100 meters (300 feet). Terminals +, S and - on the terminal block allow connection of the remote sensor. The thermostat must have 24 VAC Common connection to terminal C for the remote sensor to operate. The remote sensor can be enabled or disabled in the Installer/Configuration menu, item 29.

When remote sensor, **Remote**, is selected **Off** (factory default), no remote sensor is enabled. When remote sensor is selected **On**, the next step is to select the remote as indoor, **Remote In**, or outdoor, **Outdoor Remote**. If the remote is selected as Remote In, an additional step will be to select if the temperature shown on the display will be from the thermostat, **LS On**, or the remote sensor **LS Off**.

In normal operation, when a remote sensor is enabled the time digits of the display will alternate between the time and

the remote temperature for three seconds each. Above the remote temperature will be Remote, for indoor sensor or **Outdoor Remote**, for outdoor sensor. If the remote sensor is an indoor sensor and the local display has been disabled, the temperature displayed as the room temperature will be the remote sensor temperature.

Sensing Range:

Outdoor temperature range is -40°F to 140°F

Indoor temperature range is 32°F to 99°F

Averaging or Weighting Remote Sensors

The thermostat will weight or average the temperature of the indoor remote sensor with the local sensor in the thermostat for each program period. The averaging will be active only when the local sensor and the indoor remote sensor are both functional and enabled in the Installer/Configuration menu.

When the thermostat is in the Set Schedule mode, the weight of the indoor sensor will be shown in the current temperature

TROUBLESHOOTING

Reset Operation

Note: If a voltage spike or static discharge blanks out the display or causes erratic thermostat operation, you can reset the thermostat by removing the thermostat from the wall plate and removing batteries for 2 minutes. After two minutes, replace the batteries and replace thermostat on wall plate. If the thermostat has been reset and still does not function correctly contact your heating/cooling service person or place of purchase.

Symptom	Possible Cause	Corrective Action
No Heat/No Cool/No Fan (common problems)	<ol style="list-style-type: none"> 1. Blown fuse or tripped circuit breaker. 2. Furnace power switch to OFF. 3. Furnace blower compartment door or panel loose or not properly installed. 4. Loose connection to thermostat or system. 	Replace fuse or reset breaker. Turn switch to ON. Replace door panel in proper position to engage safety interlock or door switch. Tighten connections.
No Heat	<ol style="list-style-type: none"> 1. Pilot light not lit. 2. Furnace Lock-Out Condition. Heat may also be intermittent. 3. Heating system requires service or thermostat requires replacement. 	Re-light pilot. Many furnaces have safety devices that shut down when a lock-out condition occurs. If the heat works intermittently contact the furnace manufacturer or local HVAC service person for assistance. Diagnostic: Set SYSTEM Switch to HEAT and raise the setpoint above room temperature. Within a few seconds the thermostat should make a soft click sound. This sound usually indicates the thermostat is operating properly. If the thermostat does not click, try the reset operation listed above. If the thermostat does not click after being reset contact your heating and cooling service person or place of purchase for a replacement. If the thermostat clicks, contact the furnace manufacturer or a HVAC service person to verify the heating is operating correctly.
No Cool	<ol style="list-style-type: none"> 1. Cooling system requires service or thermostat requires replacement. 	Same as diagnostic for No Heat condition except set the thermostat to COOL and lower the setpoint below the room temperature. There may be up to a five minute delay before the thermostat clicks in Cooling.
Heat, Cool or Fan Runs Constantly	<ol style="list-style-type: none"> 1. Possible short in wiring. 2. Possible short in thermostat. 3. Possible short in heat/cool/fan system. 4. FAN Switch set to Fan ON. 	Check each wire connection to verify they are not shorted or touching together. No bare wire should stick out from under terminal block. Try resetting the thermostat as described above. If the condition persists the manufacturer of your system or service person can instruct you on how to test the Heat/Cool system for correct operation. If the system operates correctly, replace the thermostat.
Thermostat Setting & Thermostat Thermometer Disagree	<ol style="list-style-type: none"> 1. Thermostat thermometer setting requires adjustment. 	The thermometer can be adjusted +/- 4 degrees. See Temperature Display Adjustment in the Configuration Menu section.
Furnace (Air Conditioner) Cycles Too Fast or Too Slow (narrow or wide temperature swing)	<ol style="list-style-type: none"> 1. The location of the thermostat and/or the size of the Heating System may be influencing the cycle rate. 	Digital thermostats provide precise control and cycle faster than older mechanical models. The system turns on and off more frequently but runs for a shorter time so there is no increase in energy use. If you would like an increased cycle time, choose SL for slow cycle in the Configuration menu, step 7 (heat) or 8 (cool). If an acceptable cycle rate is not achieved, contact a local HVAC service person for additional suggestions.
Forgot Keypad Lockout Code		Press the menu key (key will disappear) and hold in for 20 seconds. This unlocks the thermostat.
Blank display any or keypad not responding	<ol style="list-style-type: none"> 1. Voltage Spike or static discharge 	Use the Reset Operation shown above.
Thermostat does not have Menu Screen Numbers	<ol style="list-style-type: none"> 1. Earlier version of thermostat 	To access the earlier version instruction sheet (37-6914E) go to www.white-roddgers.com , enter 1F95-1291 in Model Number Search

HOMEOWNER HELP LINE: 1-888-725-9797