

White-Rodgers 90 Series™ Multi-Stage or Heat Pump Thermostat

- Digital 7 Day Programmable
- Hardwired

1F95-391
Universal Staging
Multi-Stage or Heat Pump

Programming

- 7 day programming
- Four pre-programmed time/temperature periods per day
- Vacation programming
- Programmable fan continuous in any period
- Programmable fan on/off delays
- Separate set-up menus: installer menu, service user menu, keypad lockout (total/partial) menu

Display

- Blue luminescent display

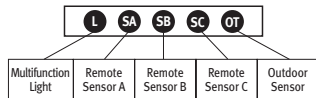
Comfort & Convenience

- Permanent program retention – no batteries required
- Daylight Savings Time quick-change button
- Air filter change indicator
- Remote sensing (optional)
- Outdoor temperature sensing (optional)
- Ignition control reset
- Heat pump warm air start
- Display temperature recalibration (+/- 5)

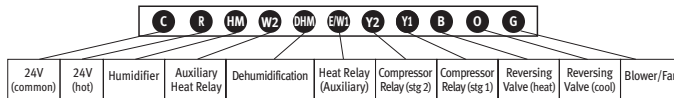
Performance

- Multi-stage, heat pump, or single stage up to 3-stage heat/2-stage cool
- Automatic changeover
- EMR (Energy Management Recovery)
- Comfort Alert™ compatible
- System and thermostat diagnostics
- Meets ENERGY STAR® specifications
- Meets California Building Code, Title 24
- Compressor lockout/Auxiliary run time
- Adjustable differential
- Energy Source Optimizer selects heat pump or fossil fuel system

Upper Terminal Designations



Lower Terminal Designations



Dimensions

6.9"W x 4.1"H x 1.3"D

Electrical Specifications

- Rating: 20 to 30 VAC, 50/60 Hz with common 0.05 to 1.5 amps per terminal
- 2.5 Amps maximum total load (all terminals combined)
- Standard Systems: Multi-stage gas, oil, electric
- Single Stage or two-stage compressor heat pump

Humidity Specifications

- Sensing Range: 2% to 97% RH
- Dehumidification Setpoint Range: 40% to 95% RH
- Humidification Setpoint Range: 5% to 50% RH

Thermal Specifications

- Setpoint Temperature Range: 45° to 99°F (7° to 37°C)
- Rated Differential: 0.5° to 1.5°F with adjustable anticipation
- Operating Ambient Temperature: 32° to 110°F (0° to 43°C)
- Operating Humidity Range: 90% non-condensing maximum
- Shipping Temperature Range: -4° to 131°F (-20° to 55°C)

Accessories

- Wall Plate F61-2300 7.25"W x 5.5"H
- Indoor Remote Sensor F145-1328
- Outdoor Remote Sensor F145-1378
- Clear Plastic Thermostat Guard F29-0231 (For additional guard options refer to White-Rodgers catalog.)

For Additional Information Visit www.white-roddgers.com

Application Guide

Single Stage	Multi-Stage	Heat Pump	Model	Programs	Applications	Selectable Performance Features													Comfort and Convenience Features													
Stages Heat/Cool by System	Model Number	Program Options	Periods Per Day Options	Gas/Oil/Electric	3 Wire Zone	Multitouch	Humidity Control (H) Humidify (D) Dehumidify	Power Source	Auto Changeover	Heat Only or Cool Only Option	Programmable Fan	Comfort Circulating Fan	Energy Mgt. Recovery	Energy Star	Dual Fuel Option	Keypad Lockout	Setpoint Temp. Lmts. Adj.	Program Override (A) Available (V) Variable (P) Current Prog.	Indoor Remote Sensor	Outdoor Remote Sensor	User Interface (T) Touchscreen/ (B) Button	Display Size (Square Inches)	Lighted Display	Audible Feedback	Alkaline Battery Life* (Years)	Cool Savings™	Daylight Sav. Adj. (A) Audio (B) Button	Furnace Lockout	Ignit. Mod. Reset	Memory Back-up (P) Permanent (B) Battery	Display Temp. Recalibration	Warranty (Years)
2/2	3/2	1F95-391	7-day	4	✓		H, D	H	✓	✓	✓	✓	✓	✓	✓	✓		AV	✓	✓	B	2.3	✓	✓	✓	B	✓	✓	✓	P	✓	1

H = Hardwired L = Logic O = Outdoor T = Total P = Partial ** Recommended Battery Change Interval is Once Per Year

White-Rodgers 90 Series™

Multi-Stage

Multi-Stage or Heat Pump Thermostat



- Digital 7 Day Programmable
- Dehumidification and Humidification Control

1F95-391

Universal Staging
Multi-Stage or Heat Pump



Two Dehumidification Modes
Plus Humidifier Control

We've Designed a Better Staging Thermostat.
With Total Humidity Control.
It's the Complete Package.

White-Rodgers 90 Series™

1F95-391

Universal Staging

We make choosing the right humidity control thermostat simple.

One *Universal* model replaces most competitive staging models. No need to stock dedicated multi-stage or heat pump models.

The Best Humidity Control.

The only dehumidification thermostat offering two options to tailor its operation depending on dehumidification needs. With Optimum Dehumidification mode when dehumidifying is a priority or Optimum Comfort mode when temperature comfort is a priority while reducing humidity. Other dehumidification thermostats only offer one mode of dehumidification, sacrificing temperature comfort to reduce humidity.

The 1F95-391 also offers humidifier control providing year-round comfort with exceptional temperature and humidity control.

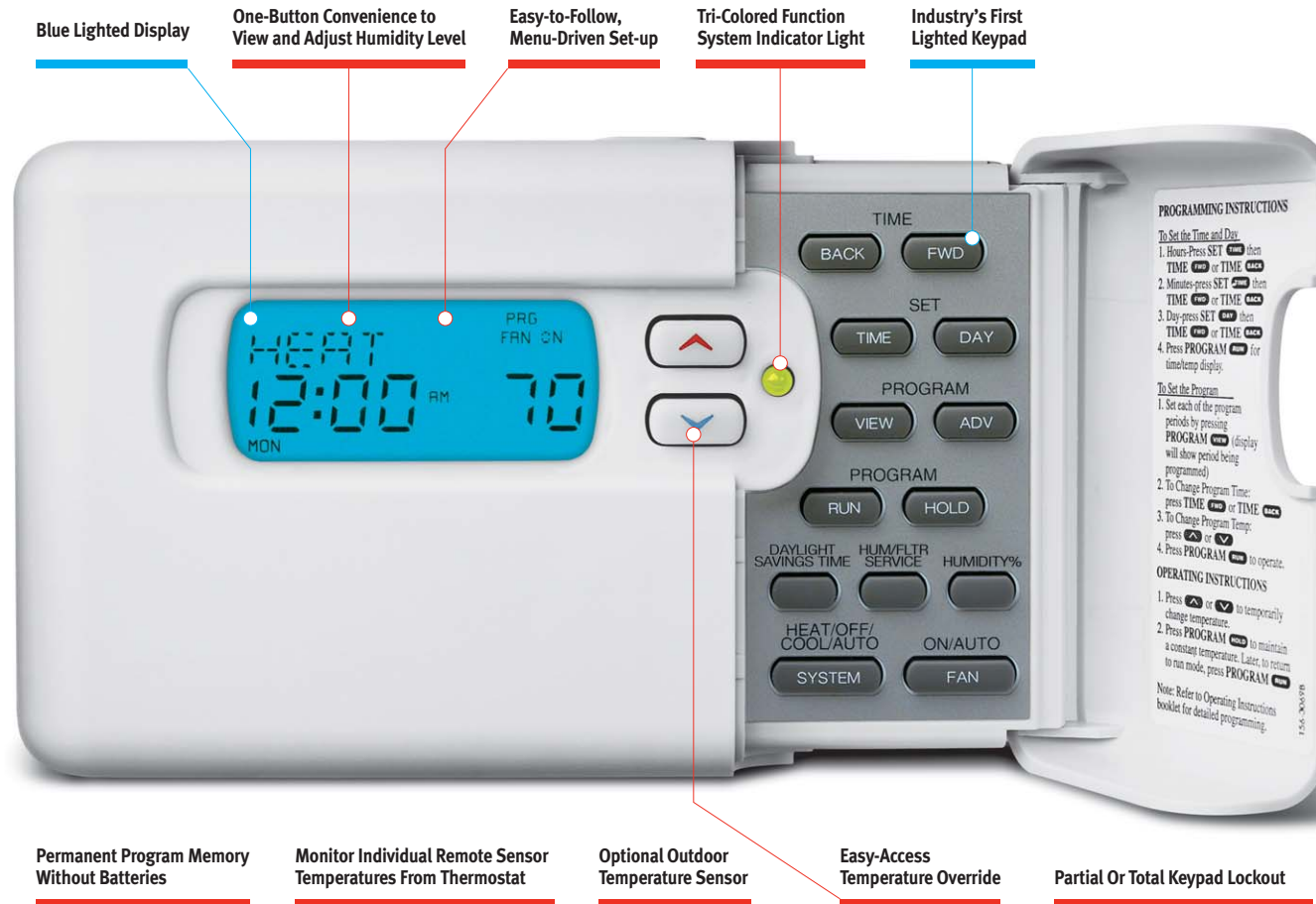
The White-Rodgers Universal 1F95-391 is simply the best, smartest choice you can make in a humidity control thermostat.

For you. And for your customers.

Simple To Stock. The 1F95-391 is our humidity control digital staging thermostat. Its installation versatility means simplified stocking because you only need to remember this one model number. One model replaces most competitive multi-stage and heat pump models. No need to stock any other brand.

Simple Flexibility. With 7 independent day programming and auto-changeover, the 1F95-391 offers the flexibility for designing heating and cooling programs to meet your customers' comfort needs.

Simple To Set Up. The clear, menu-driven programming sequence simply walks the installer and user through each step of the process, using "real English" on the blue lighted display.



Blue Lighted Display

One-Button Convenience to View and Adjust Humidity Level

Easy-to-Follow, Menu-Driven Set-up

Tri-Colored Function System Indicator Light

Industry's First Lighted Keypad

Permanent Program Memory Without Batteries

Monitor Individual Remote Sensor Temperatures From Thermostat

Optional Outdoor Temperature Sensor

Easy-Access Temperature Override

Partial Or Total Keypad Lockout

Simple To Program. Our patented, pre-programmed software sets the standard for ease of programming. Simply and quickly adjust the pre-programmed "average" settings to meet the temperature requirements and schedule needs.

Simple To Use. Humidity control at the thermostat is much more accurate and easier to change when it's in the furnace room.

Simply The Best Choice!



Optional

Indoor Digital-Signal Remote Sensor
Up To 3 Can Be Added To System
(order #F145-1328)

Outdoor Remote Sensor
(order #F145-1378)

Better Accuracy. Digital remote sensors provide more precise, cleaner signals than conventional analog signals. With digital signals, there is no temperature variance due to wire resistance over long distances. Now each remote sensor can be placed up to 200 feet from the thermostat and still deliver accurate temperature readings. Up to 4 temperature sensing points – 1 integrated in thermostat and 3 remote sensors. The temperature from the sensor can be averaged or weighted by program time period.

Better Energy Efficiency. Our advanced microprocessor allows maximization of a system's potential. It can maintain temperature accuracy to within +/- 1°F. Its energy-efficient programming operation can reduce heating and cooling costs up to 33%!

Better Control. The Energy Management Recovery feature lets the thermostat automatically select the proper time to start heating or cooling for the most efficient temperature recovery possible, while at the same time maintaining the desired comfort level.

Better System Management.

Built-in diagnostics continuously monitor thermostat operation, and aid in thermostat and system troubleshooting.

Better Backup Memory. The fail-safe, permanent memory retains all installer and user settings in the event of a power failure. Plus, no batteries are required – making this the most reliable unit on the market.

Better System Performance. For heat pump applications, our Energy Source Optimizer (ESO)* system uses the thermostat's logic to eliminate the need for an outdoor thermostat and a fossil fuel kit. By calculating when the pump is no longer efficient, the thermostat determines exactly when to switch to the fossil fuel system to maintain the desired comfort. *Patent Pending

Better Ignition Backup. For multi-stage applications, the ignition control reset feature helps prevent a nuisance "no-heat" service call. It uses the thermostat's logic to attempt up to 3 ignition resets at appropriate intervals when the system does not respond to a call for heat.

Better Comfort Setting. A unique Warm Air Start option eliminates the "blast of cold air" heat pump owners can experience at the start of the heating cycle. It offers up to a 30-second blower delay, warming the air before the blower starts.

**Not Just Better –
The Best Humidity Control Thermostat!**

White
Rodgers