



1F85U-22NP (Non-Programmable) Installation and Operating Instructions 80-Series™ Universal Thermostat Battery Powered-or Hardwired with Common



INDEX

Optional Accessory: Wall Covering Plate P83-2663, is 3/4" W x 4 1/2" H

Thermostat Installation	1-4
Wiring	1
Installer Menu	3-4
Test Equipment	4
Using the Thermostat	5-9
Thermostat Overview	5
User Menu	6
Thermostat Operation	8
Troubleshooting	7-9
Manufacturer Help Line	9

Thermostat Applications	Maximum Stages Heat/Cool
Conventional Gas, Oil, Electric (oil and 24V), Heat Pumps, Heat/Cooling Heat/Cool Systems	3/2 -/-
Heat Pump (Air Source or Geothermal) with Aux. Heat	2/1

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. Refer to www.thermostatrecycle.org for information on disposing of products containing mercury.

SPECIFICATIONS

Electrical Rating			
Battery Power	48V to 240VAC, NRC Class B, 50/60 Hz		
Input Hardwire	20 to 240VAC, NRC Class B, 50/60 Hz		
Terminal Load	1.5 A per terminal, 2.5A maximum all terminals combined		
Setpoint Range			
45° to 99° F (2° to 127° C)			
Rated Differentials (24-27V rms)			
	Fast	Med	Slow
Heat (Conventional Gas/Oil/Elect)	0.5°F	0.75°F	1.0°F
Cool (Central Air)	0.5°F	1.2°F	1.7°F
Heat Pump (Heat and Cool)	0.5°F	1.2°F	1.7°F
Heat Pump Aux.	0.5°F	0.75°F	1.0°F
Operating Ambient			
32°F to +122°F (0° to 48°C)			
Display Temperature Range			
32°F to +99°F (0 to 37°C)			
Operating Humidity			
30% non-condensing maximum			
Shipping Temperature Range			
-20°F to +120°F (-29° to 48°C)			
Thermostat Dimensions			
3 3/4" H x 3" W x 3 3/8" D			

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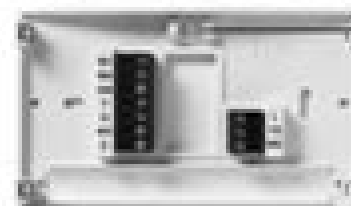
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1515

THERMOSTAT INSTALLATION

WIRING

Refer to equipment manufacturer's instructions for specific system wiring information. After wiring, see PG 1 ALL 18 62642 for proper thermostat configuration. Wiring table shown are for typical systems and describe the thermostat terminal functions. Wiring will change when dedicated emergency heat is on. (See Installer Menu #115).

Terminal Designations	Terminal Function
RC	Power (24V)- Cooling
RH	Power (24V)- Heating
CR 8 (not shown) - 3 wire zone valve	Reversing Valve or output for 3 wire zone valves Configurable as "O" or "H" Reversing valve or 3 wire zone heat (open/closed)
Y	1st Stage Compressor (conventional or heat pump)
G	Fan Relay
W1	1st Stage Heat (conventional) 1st Stage Auxiliary Heat (heat pump) Can operate as Emergency Heat only (See Installer Menu #111)
C	Common wire for 24V (optional with batteries)
L	Heat Pump Malfunction/Diagnostic terminal (input signal requires common)
Y2	2nd Stage compressor (conventional only)
W2	2nd Stage Heat (Conventional) Can operate as 1st Stage Auxiliary Heat (See Installer Menu #111)



Leaving thermostat
Leaving is for appearance only and
will not affect thermostat operation.

Precautions

- Do not exceed the specification ratings.
- All wiring must conform to local and national electrical codes and ordinances.
- This control is a precision instrument, and should be handled carefully. Rough handling or disturbing components could cause the control to malfunction.

WARNING

Do not use an circuit exceeding rated heat voltage.
Higher voltage will damage control and could
cause shock or fire hazard.

Do not short out terminals or apply voltage to primary
control for test. Short or incorrect wiring will harm
the thermostat and could cause personal injury
and/or property damage.

CAUTION

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

CAUTION

To prevent compressor and/or property damage, if the outdoor temperature is below 30°F,
DO NOT operate the cooling system.

Do not allow the compressor to run when the condenser coil has been operational
four hours and the system has not been operational for at least 15 minutes.

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G Thomas



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The American Catalog ,1885 **City Record** Boston (Mass.),1929 **Data Center Handbook** Hwaiyu
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Table of Contents Emerson 80 Net User Manual

1. Understanding the eBook Emerson 80 Net User Manual
 - The Rise of Digital Reading Emerson 80 Net User Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Emerson 80 Net User Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Emerson 80 Net User Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Emerson 80 Net User Manual
 - Personalized Recommendations
 - Emerson 80 Net User Manual User Reviews and Ratings
 - Emerson 80 Net User Manual and Bestseller Lists
5. Accessing Emerson 80 Net User Manual Free and Paid eBooks
 - Emerson 80 Net User Manual Public Domain eBooks
 - Emerson 80 Net User Manual eBook Subscription Services
 - Emerson 80 Net User Manual Budget-Friendly Options

6. Navigating Emerson 80 Net User Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Emerson 80 Net User Manual Compatibility with Devices
 - Emerson 80 Net User Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Emerson 80 Net User Manual
 - Highlighting and Note-Taking Emerson 80 Net User Manual
 - Interactive Elements Emerson 80 Net User Manual
8. Staying Engaged with Emerson 80 Net User Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Emerson 80 Net User Manual
9. Balancing eBooks and Physical Books Emerson 80 Net User Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Emerson 80 Net User Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Emerson 80 Net User Manual
 - Setting Reading Goals Emerson 80 Net User Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Emerson 80 Net User Manual
 - Fact-Checking eBook Content of Emerson 80 Net User Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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