



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



## **INDEX**

Optional Accessory: Wall Covering Plate (80-2663), is 3/4" W x 4 1/2" H

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| Thermostat Applications                                                                   | Maximum Stages Heat/Cool |
|-------------------------------------------------------------------------------------------|--------------------------|
| Conventional Gas, Oil, Electric (oil and 24V), Heat Pumps, Split-System Heat/Cool Systems | 3/2<br>-/-               |
| 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](http://www.thermostatrecycle.org) for information on disposing of products containing mercury.

## **SPECIFICATIONS**

|                                   |                                                          |        |       |
|-----------------------------------|----------------------------------------------------------|--------|-------|
| <b>Electrical Rating</b>          |                                                          |        |       |
| Battery Power                     | min to 30VAC, NEC Class I, 50/60 Hz                      |        |       |
| Input Hardwire                    | 20 to 30VAC, NEC Class I, 50/60 Hz                       |        |       |
| Terminal Load                     | 1.5 A per terminal, 2.5 A maximum all terminals combined |        |       |
| Setpoint Range                    | 45° to 99° F (2° to 37° C)                               |        |       |
| Rated Differentials (24-0°F) (°F) | 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 +105°F (2° to 41°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 49°C)                           |        |       |
| Thermostat Dimensions             | 3 3/4" H x 3" W x 3 3/8" D                               |        |       |

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 emersonclimate.com

**PART NO. 37-F5728-EN**  
 1515

## **THERMOSTAT INSTALLATION**

### **WIRING**

Refer to equipment manufacturer's instructions for specific system wiring information. After wiring, see PG 1 ALL 18 62 64 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<br>8 (not shown) - 3 wire zone valve | Reversing Valve or output for 3 wire zone valves<br>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)<br>1st Stage Auxiliary Heat (heat pump)<br>Can operate as Emergency Heat only<br>(See Installer Menu #111) |
| C                                       | Common wire for 24V (optional with batteries)                                                                                            |
| L                                       | Heat Pump Malfunction/Diagnostic terminal<br>(input signal requires common)                                                              |
| W2                                      | 2nd Stage compressor (conventional only)                                                                                                 |
| W3                                      | 2nd Stage Heat (Conventional)<br>Can operate as 1st Stage Auxiliary Heat<br>(See Installer Menu #111)                                    |



Leaving thermostat  
 Leaking 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 plug into a 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 32°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.

# Emerson 80 Net User Manual

**IM Harris**



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