



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



INDEX

Optional Accessory: Wall Covering Plate (R3, 2663, is 1/4" 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 -/-
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 37° 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 +105°F (0° 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 +100°F (-29° to 40°C)		
Thermostat Dimensions	5 1/4" H x 6" W x 1 1/4" D		

white-radiant.com
 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 ALLER 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
OR 8 (not shown) - 3 wire zone valve	Reversing Valve or output for 3 wire zone valves Configurable as "O" or "R" 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)
W2	2nd Stage compressor (conventional only)
W3	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 any terminals or plug into a primary
 control for test. Short or incorrect wiring will burn
 out 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 and
 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

CO Houle



Emerson 80 Net User Manual:

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