



1485U-22PR (Programmable) Installation and Operating Instructions 80-Series Universal Thermostat Battery Powered or Hardwired with Common



INDEX

Optional Accessory: Wall-Covering Plate 985-2845, 5-3/4" W x 4-1/2" H

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Thermostat Applications	Maximum Stages Heat/Cool
Conventional Gas, Oil, Electric (w/Valve 24V), Heat only, Split systems, Heat/Cool Systems	1/2
Heat Pump (Air Source or Geothermal) with Aux. Heat	2/1

MERCURY NOTICE: This product does not contain mercury. However, this product may replace 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	wire to 50VAC, NEC Class 2, 50VA/100VA
Input Hardware	20 to 30VAC, NEC Class 2, 100VA/100VA
Terminal Load	1.5A per terminal, 1.5A maximum all terminals combined
Setpoint Range	45° to 99° F (5° to 37° C)
Rated Differentials (30-60° F)	
Heat (Conventional Gas/Oil (24V))	0.5° 0.75° 1.0°
Cool (Central Air)	0.5° 1.25° 1.75°
Heat Pump (Heat and Cool)	0.5° 1.25° 1.75°
Heat Pump Aux.	0.5° 0.75° 1.0°
Operating Ambient	32° to +59° F (0° to +15° C)
Display Temperature Range	32° to +99° F (0° to 37° C)
Operating Humidity	90% non-condensing maximum
Shipping Temperature Range	-20° F to +150° F (-29° to +60° C)
Thermostat Dimensions	5-3/4" W x 4" H x 1-1/8" D

white Rodgers.com
 emersonclimate.com

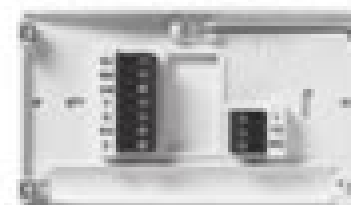
PART NO. 37-75558-EN
 (5/11)

THERMOSTAT INSTALLATION

WIRING

Refer to equipment manufacturer's instructions for specific system wiring information. After wiring, see INSTALLER MENU 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 #11).

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 (power) coil
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 #11)
C	Common wire for 24V (optional with batteries)
L	Heat Pump Multifunction/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 #11)



Leaving thermostat
 Leaking air 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 electric screwdriver open lead voltage
 Higher voltage will damage control and could
 cause shock or fire hazard
 Do not short out terminals or give value to primary
 control for test. Short or incorrect wiring will harm
 the thermostat and could cause personal injury
 or other property damage

CAUTION

To prevent mechanical shock, avoid equipment
 damage, disconnect electrical power to system,
 at main fuse or circuit breaker first, and
 installation is complete

CAUTION

To prevent compressor and/or property damage, if the outdoor temperature is below 32° F,
 (0° F) operate the heating system.
 Do not allow the compressor to run unless the compressor or heaters have been operational
 for 5 minutes and the system has not been operational for at least 15 minutes

Emerson 80 Net User Manual

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