

80 Series™ Thermostats

Universal • Heat Pump • Conventional Applications — Programmable and Non-Programmable Models

The Clear Choice in Professional Thermostats

8 Models Cover Universal, Heat Pump and Conventional Applications

Large Display

Bright Backlight
High Contrast Screen

Selectable Programming

Choice of 7 Day, 5+1+1 Day or Off
Standard on all programmable models

Dual Fuel Control

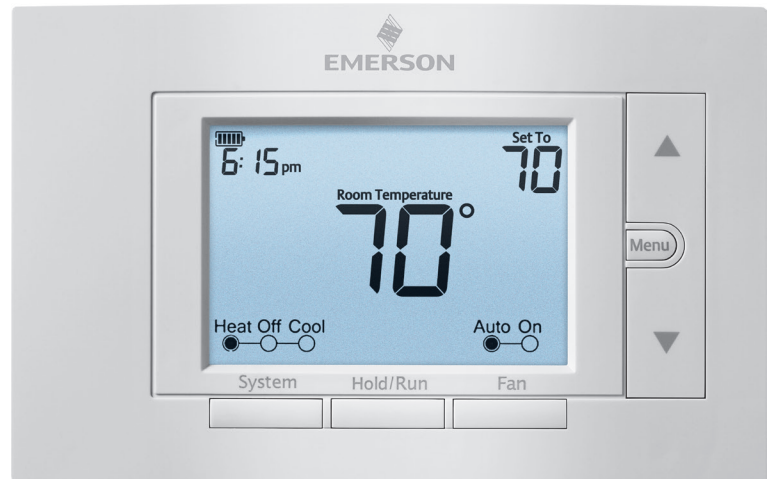
No outdoor sensor required
Standard on all staging models

Advanced Features

Auto Changeover on Universal models
Keypad Lockout
Temperature Limits

Easy to Install

Built-in level indicator
Simple set up menu
Terminal block connections on subbase



1F85U-42PR

Loaded with features!

Providing clarity in selection, installation and programming

Cut through the confusion with a new line of professional thermostats from White-Rodgers. As a complement to the Sensi Wi-Fi programmable thermostat, the Emerson 80 Series thermostats feature a slim profile and a modern design. The large, high contrast, bright backlit thermostat screen makes it easy to read in low-light situations.

White-Rodgers™


EMERSON
Climate Technologies

80 Series Thermostats

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Specifications

Electrical Rating

Battery Power: mV to 30 VAC
Hardwire: 20 to 30 VAC
NEC Class II, 50/60 Hz

Setpoint Range

45°F to 99°F (7°C to 37°C)

Accessories

Wallplate: F61-2663 (6-3/4" x 4-1/2")
Thermostat Guard: F29-0198

Display Temperature Range

32°F to +99°F (0°C to 37°C)

Rated Differentials (@ 6°F / Hr)

	Fast	Med	Slow
Heat (Conventional Gas/Oil/Elect):	0.5°F	0.75°F	1.9°F
Cool (Central Air):	0.9°F	1.2°F	1.7°F
Heat Pump (Heat and Cool):	0.9°F	1.2°F	1.7°F
Heat Pump (Aux):	0.5°F	0.75°F	1.9°F

Terminal Load

Staging Models: 1.5 A per terminal
2.5 A per maximum all terminals combined

Single Stage Models: 1.0 A per terminal
1.5 A per maximum all terminals combined

Operating Ambient

32°F to +105°F
(0°C to +41°C)

Operating Humidity

90% non-condensing max

Shipping Temperature

-20°F to +150°F
(-29°C to +65°C)

Thermostat Dimensions

3-3/4"H x 6"W x 1-1/8"D

Terminal Designations

Universal: 1F85U-42PR / 1F85U-42NP / 1F85U-22PR / 1F85U-22NP

RC RH C W/E W2 Y Y2 O/B/G L

Heat Pump: 1F83H-21PR / 1F83H-21NP

R C W2 E Y O/B G L

Conventional & Heat Pump, Single Stage: 1F83C-11PR / 1F83C-11NP

RC RH C W Y O/B G

Model	Program Options				Maximum Stages Heat / Cool		Applications			Power Source		Selectable Performance Features				Comfort and Convenience Features			
Model Number	7 Day	5+1+1 Day	Non-Programmable	Program Periods per Day	Conventional	Heat Pump	Gas / Oil / Electric	3 Wire Zone Valve	Millivolt Compatible	Battery	Hardwired (24V)	Auto Changeover	EMR / Early Start Program	Temperature Setpoint Limits Adjustable Max./Min.	Dual Fuel Control (L)-Logic(O)-Outdoor Sensor	Filter Change Reminder	Keypad Lockout	Continuous Backlight w/Common Wire	Permanent Memory
1F85U-42PR	7	5+1+1	0	4,2,0	2/2	4/2	✓	✓	✓	✓	✓	✓	✓	✓	L	✓	✓	✓	✓
1F85U-42NP			0	0	2/2	4/2	✓	✓	✓	✓	✓	✓		✓	L		✓	✓	✓
1F85U-22PR	7	5+1+1	0	4,2,0	2/2	2/1	✓	✓	✓	✓	✓	✓	✓	✓	L	✓	✓	✓	✓
1F85U-22NP			0	0	2/2	2/1	✓	✓	✓	✓	✓	✓		✓	L		✓	✓	✓
1F83H-21PR	7	5+1+1	0	4,0		2/1	✓			✓	✓		✓	✓	L	✓	✓	✓	✓
1F83H-21NP			0	0		2/1	✓			✓	✓			✓	L		✓	✓	✓
1F83C-11PR	7	5+1+1	0	4,0	1/1	1/1	✓		✓	✓	✓		✓	✓		✓	✓	✓	✓
1F83C-11NP			0	0	1/1	1/1	✓		✓	✓	✓			✓			✓	✓	✓



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R-4461

White-Rodgers™

Saint Louis, Missouri
314-553-3600

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emersonclimate.com
emersonthermostats.com
emerson80series.com

Markham, Ontario
905-948-3411

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