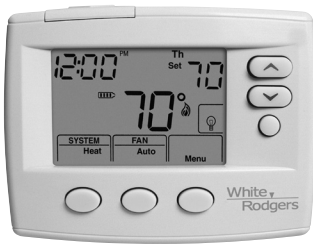


WHITE-RODGERS 80 SERIES THERMOSTATS

White
Rodgers



1F80-0471



1F85-277



1F83-277



1F80-361



1F86-344

80 SERIES/80 SERIES BLUE THERMOSTATS

Residential and Light Commercial – Single Stage, Multi-Stage and Heat Pump Applications. 80 Series Thermostats are Packed with Premium Features. No Other Thermostat Series Offers More Value for the Money

FEATURES

- Choice of battery powered, dual power or hardwired models.
- Fossil fuel or electric heat compatible.
- 60% larger LCD with backlight.
- Permanent program retention during power loss.
- Configuration menu allows keypad selection of options.
- Selectable Celsius or Fahrenheit temperature display.
- Selectable Energy Management Recovery (1F80-240/1F80-241/1F80-361/1F81-261/1F82-261).
- Meets Energy Star specifications – all programmable models, except 1F80-224.
- Configurable to non-programmable 1F80-0471.
- 80 Series Blue fits vertical or horizontal junction box.

SPECIFICATIONS

Electrical Rating Single Stage:

Dual Power or Battery Power Model mV to 30 VAC, NEC Class II, 50/60 Hz or DC

Input-Hardwire Model 20 to 30 VAC

Electrical Rating Staging 20 to 30 VAC, NEC Class II

Terminal Load 1.0 A per terminal,
1.5A maximum all terminals combined

Setpoint Range 45 to 90°F (7 to 32°C)

Rated Differential (Single Stage) Heat 0.6° or 1.5°F
. Cool 1.2°F

Rated Differential (Multi-Stage) Heat 0.6° or 1.5°F
. Cool 1.2°F

Rated Differential (Heat Pump) Heat & Cool 0.75° or 1.2°F

Operating Ambient 32 to +105°F (0 to +41°C)

Operating Humidity 90% non-condensing max.

Shipping Temperature Range -4 to +150°F (-20 to +65°C)

Dimensions Thermostat 3³/₄" H x 6" W x 1¹/₄" D

Dimensions 80 Blue Models 3³/₈" H x 4³/₈" W x 1³/₁₆" D

PARTS AND ACCESSORIES

 See end of this section for additional parts and accessories

- Thermostat Guards — see pages 28-29
- Wallplate F61-2500 — 4⁵/₈" H x 7⁵/₈" W for all 1F80's (except Blue)
- Wallplate F61-2600 — 5" H x 6¹/₂" W for 80 Series Blue models



WHITE-RODGERS 80 SERIES THERMOSTATS – STAGING THERMOSTATS

Single Stage	Multi-Stage	Heat Pump	Programs		Model Number	Applications				Thermostat Power Source*	Selectable Performance Features							Comfort and Convenience Features		Terminals		
			Stages Heat/Cool by System	Program Options		Periods Per Day Options	Gas / Oil / Electric	3 Wire Zone Valve	Millivolt Compatible		Humidity Control (H)-Humidity / (D)-Dehumidify	Auto Changeover	Programmable Fan	Energy Mgt. Recovery	Energy Star	Keypad Lockout (T)-Total / (P)-Partial	Set-Point Temperature Limits Adjustable Max/Min	Indoor Remote Sensors Max. Number + Thermostat Average and/or Weighted	Outdoor Remote Sensor		Display Size Square inches	Lighted Display
1/1	2/2	3/2	7, 5+1+1, Ø	4, 2, Ø	1F85CA-277 Comfort Alert	✓		✓		B, H	✓		✓	✓	T	✓			2.2	✓***	P	R, C, G, E/W1, W2, Y, Y2, O, B, L
1/1	2/2	3/2	7, 5+1+1, Ø	4, 2, Ø	1F85-277	✓		✓		B, H	✓		✓	✓	T	✓			2.2	✓***	P	R, C, G, E/W1, W2, Y, Y2, O, B, L
1/1	2/2	3/2	5+1+1, 5+2, Ø	4, 2, Ø	1F85-275	✓		✓		B, H	✓		✓	✓	T	✓			2.2	✓***	P	R, C, G, E/W1, W2, Y, Y2, O, B, L
	2/2		5+1+1	4	1F81-261	✓				B, H			✓	✓					1.8	✓***	P	R, C, Y, Y2, W, W2, G
1/1	2/2	3/2	Ø	Ø	1F83-277	✓		✓		B, H	✓				T	✓			2.2	✓***	P	R, C, G, E/W1, W2, Y, Y2, O, B, L
	2/2		Ø	Ø	1F83-261	✓				B, H									1.8	✓***	P	R, C, Y, Y2, W, W2, G
		2/1	5+1+1	4	1F82-261	①				H			✓	✓					1.8	✓***	P	R, C, Y, W2, G, B/O, L, E
		2/1	Ø	Ø	1F89-211	①				H									1.8	✓***	P	R, C, Y, W2, G, B/O, L, E

SINGLE STAGE THERMOSTATS

Single Stage	Multi-Stage	Heat Pump	Programs		Model Number	Applications				Thermostat Power Source*	Selectable Performance Features							Comfort and Convenience Features		Terminals			
			Stages Heat/Cool by System	Program Options		Periods Per Day Options	Gas / Oil / Electric	3 Wire Zone Valve	Millivolt Compatible		Humidity Control (H)-Humidity / (D)-Dehumidify	Auto Changeover	Programmable Fan	Energy Mgt. Recovery	Energy Star	Keypad Lockout (T)-Total / (P)-Partial	Set-Point Temperature Limits Adjustable Max/Min	Indoor Remote Sensors Max. Number + Thermostat Average and/or Weighted	Outdoor Remote Sensor		Display Size Square inches	Lighted Display	Cool Savings™
NEW!	1/1		5+1+1, 5+2, Ø	4, Ø	1F80-0471	✓	✓	✓		B, H	✓		✓	✓					4.0	✓***	✓	P	RC, RH, C, W, Y, G, O/B
	1/1		7-Day	4	1F87-361	✓		✓		B, H			✓	✓					2.2	✓		P	RC, RH, C, W, Y, G, O, B
	1/1		5+1+1	4	1F80-361	✓		✓		B, H			✓	✓					2.2	✓		P	RC, RH, C, W, Y, G, O, B
	1/1		5+1+1	4	1F80-241	✓				H			✓	✓					2.2	✓***		P	RC, RH, C, W, Y, G, O, B
	1/1		24 hours	4	1F80-224	✓		✓		B			✓	✓					2.2	✓		P	RC, RH, W, Y, G, O, B
NEW!	1/1		Ø	Ø	1F86-0471	✓	✓	✓		B, H	✓								4.0	✓***	✓	P	RC, RH, C, W, Y, O/B
	1/1		Ø	Ø	1F86-344	✓		✓		B, H									2.2	✓		P	RC, RH, C, W, Y, G, O, B
	1/1		Ø	Ø	1F86-241	✓				H									2.2	✓***		P	RC, RH, C, W, Y, G, O, B
	1/Ø		5+1+1	4	1F80-240	✓		✓		B			✓	✓					2.2	✓		P	RH, W, G

* H = Hardwired (Requires Common)
 B,H = Battery Powered or Hardwired
 B = Battery Powered
 PS = Power Stealing with Battery Back-Up

① Heat Pump for Stage 1, and Gas/Oil/Electric for 2nd Stage/Emergency
 *** Optional Continuous Display Light w/Hardwire connection
 ▼ Only one (1) remote sensor may be used – either Indoor or Outdoor



TECHNICAL HELP

Single Stage Configuration and Wiring	See page 178
Multi-Stage Configuration and Wiring	See pages 180-181
Heat Pump Configuration and Wiring	See page 179
80 Series Blue	See page 184