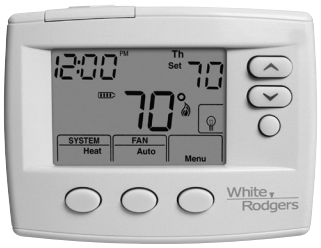
WHITE-RODGERS 80 SERIES THERMOSTATS



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	$3\frac{3}{4}$″H x 6″W x $1\frac{1}{4}$″D
Dimensions 80 Blue Models	$3\frac{3}{8}$″H x $4\frac{3}{8}$″W x $1\frac{3}{16}$″D

PARTS AND ACCESSORIES See end of this section for additional parts and accessories

- Thermostat Guards — see pages 28-29
- Wallplate F61-2500 — $4\frac{5}{8}$″H x $7\frac{5}{8}$″W for all 1F80's (except Blue)
- Wallplate F61-2600 — 5″H x $6\frac{1}{2}$″W for 80 Series Blue models

WHITE-RODGERS 80 SERIES THERMOSTATS – STAGING THERMOSTATS

Single Stage	Multi-Stage	Heat Pump	Programs			Applications					Selectable Performance Features								Comfort and Convenience Features				Terminals
Stages Heat/Cool by System			Program Options	Periods Per Day Options	Model Number	Gas / Oil / Electric	3 Wire Zone Valve	Millivolt Compatible	Humidity Control (H)-Humidity / (D)-Dehumidify	Thermostat Power Source*	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™	Memory Back-Up (P)-Permanent / (B)-Battery	
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	Applications					Selectable Performance Features								Comfort and Convenience Features				Terminals
Stages Heat/Cool by System			Program Options	Periods Per Day Options	Model Number	Gas / Oil / Electric	3 Wire Zone Valve	Millivolt Compatible	Humidity Control (H)-Humidity / (D)-Dehumidify	Thermostat Power Source*	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™	Memory Back-Up (P)-Permanent / (B)-Battery	
NEW! 1/1		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		1/1	7-Day	4	**1F87-361**	✓		✓		B, H			✓	✓					2.2	✓		P	RC, RH, C, W, Y, G, O, B
1/1		1/1	5+1+1	4	**1F80-361**	✓		✓		B, H			✓	✓					2.2	✓		P	RC, RH, C, W, Y, G, O, B
1/1		1/1	5+1+1	4	**1F80-241**	✓				H			✓	✓					2.2	✓***		P	RC, RH, C, W, Y, G, O, B
1/1		1/1	24 hours	4	**1F80-224**	✓		✓		B			✓	✓					2.2	✓		P	RC, RH, W, Y, G, O, B
NEW! 1/1		1/1	Ø	Ø	**1F86-0471**	✓	✓	✓		B, H	✓								4.0	✓***	✓	P	RC, RH, C, W, Y, O/B
1/1		1/1	Ø	Ø	**1F86-344**	✓		✓		B, H									2.2	✓		P	RC, RH, C, W, Y, G, O, B
1/1		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