

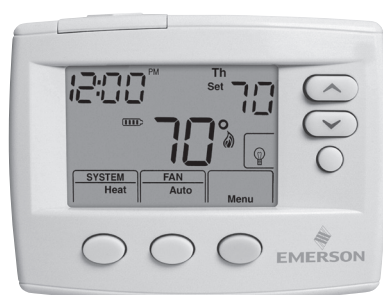
BLUE 4" THERMOSTATS

White-Rodgers™

24 VOLT



1F85-0422



1F80-0471



BLUE 4" UNIVERSAL AND SINGLE STAGE THERMOSTATS – 4 SQ. IN. DISPLAY

Premium Features for Staging or Single Choices – for Optimum System Control

FEATURES

- Available in Universal (Single Stage, Multi-Stage, Heat pump) or Single Stage Models.
- Programmable 7-Day, 5/1/1 Day, 5/2 Day, 0-Day or Non-Programmable.
- Gas, Oil, Electric, mV and 2 or 3-Wire Zone compatible.
- Automatic Heat/Cool changeover option.
- Keypad lockout and temperature limit options.
- Dual power – hardwired and/or battery powered.
- Fits vertical or horizontal junction box.
- Air filter change indicator option.
- Spanish language display models available.

SPECIFICATIONS

Electrical Rating:

Hardwire	20-30 VAC, NEC Class II 50/60Hz
Battery Power	mV to 30 VAC, NEC Class II, 50/60 Hz or DC
Terminal Load Staging Models	1.5 A per terminal, 2.5 A maximum all terminals combined

Terminal Load Single Stage Models	1.0 A per terminal, 1.5 A maximum all terminals combined
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Setpoint Range 45 to 99°F (7 to 37°C)

Rated Differentials, Universal Models:	Fast	Med.	Slow
Heat (Single Stage/Multi-Stage)	0.4°F	0.6°F	1.7°F
Cool (Single Stage/Multi-Stage)	0.9°F	1.2°F	1.7°F
Heat Pump	0.9°F	1.2°F	1.7°F
Emer. Heat	0.6°F		1.7°F

Rated Differentials - Single Stage Models:	Fast	Med.	Slow
Heat (Single Stage/Multi-Stage)	0.4°F	0.6°F	1.7°F
Cool (Single Stage/Multi-Stage)	1.2°F		1.7°F
Heat Pump	1.2°F		1.7°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)

Dimension 3⁷/₁₆" H x 4⁷/₁₆" W x 1¹/₄" D
3⁷/₈" H x 5¹/₈" W x 1¹/₄" D – (Universal models)

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

- F61-2634 — Wallplate 6¹/₂" W X 5" H, for use with or without horizontal junction box (included with thermostat)
- F61-2648 — Wallplate (6 pack of F61-2634 above)
- Thermostat Guards — see pages 34–35 for quick selection

UNIVERSAL STAGING/HEAT PUMP THERMOSTATS – BLUE 4" THERMOSTATS

Single Stage	Multi-Stage	Heat Pump	Programs		Model	Applications				Thermostat Power Source*	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)-Dehumidity		Auto Changeover	Programmable Fan	Energy Mgt. Aware	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, 5+2, Ø	4, Ø	1F85-0477 Universal	✓	✓	✓		B, H	✓		✓	T	✓			4.0	✓***	✓	P	RC, RH, C, W/E, W2,Y, Y2, O/B, G, L, 6
1/1	2/2	2/1	5+1+1, 5+2, Ø	4, Ø	1F85-0422 Universal	✓	✓	✓		B, H	✓		✓	T	✓			4.0	✓***	✓	P	RC, RH, C, W/E,W2,Y,Y2, O/B, G, L, 6
1/1	2/2	2/1	5+1+1, 5+2, Ø	4, Ø	1F85ST-0422 Universal**	✓	✓	✓		B, H	✓		✓		✓			4.0	✓***	✓	P	RC, RH, C, W/E, W2,Y, Y2, O/B, G, L, 6
1/1	2/2	3/2	Ø	Ø	1F83-0471 Universal	✓	✓	✓		B, H	✓			T	✓			4.0	✓***	✓	P	RC, RH, C, W/E, W2,Y, Y2, O/B, G, L, 6
1/1	2/2	2/1	Ø	Ø	1F83-0422 Universal	✓	✓	✓		B, H	✓			T	✓			4.0	✓***	✓	P	RC, RH, C, W/E, W2,Y, Y2, O/B, G, L, 6

** ST model is Spanish language display

SINGLE STAGE THERMOSTATS – BLUE 4" THERMOSTATS

Single Stage	Multi-Stage	Heat Pump	Programs		Model	Applications				Thermostat Power Source*	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)-Dehumidity		Auto Changeover	Programmable Fan	Energy Mgt. Aware	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		1/1	5+1+1, 5+2, Ø	4, Ø	1F80-0471	✓	✓	✓		B, H	✓	✓		✓			4.0	✓***	✓	P	RC, RH, C, W, Y, O/B, G
1/1		1/1	5+1+1, 5+2, Ø	4, Ø	1F80ST-0471**	✓	✓	✓		B, H	✓	✓					4.0	✓***	✓	P	RC, RH, C, W, Y, O/B, G
1/1		1/1	Ø	Ø	1F86-0471	✓	✓	✓		B, H	✓	✓		✓			4.0	✓***	✓	P	RC, RH, C, W, Y, O/B, G
1/1		1/1	Ø	Ø	1F86ST-0471**	✓	✓	✓		B, H	✓						4.0	✓***	✓	P	RC, RH, C, W, Y, O/B, G

* H = Hardwired (Requires Common)
 B, H = Battery Powered or Hardwired
 B = Battery Assist Powered

** ST models are Spanish language display
 *** Optional Continuous Display Light w/ Hardwire connection



TECHNICAL HELP

1F80-0471 / 1F86-0471.....Wiring Diagrams/Configuration..... See page 147
 1F83-0471 / 1F85-0471.....Wiring Diagrams..... See pages 148–149
 1F83-0422 / 1F85-0422.....Wiring Diagrams/Configuration..... See pages 149–151
 1F85-0477Wiring Diagrams/Configuration..... See pages 152–154