

## INDEX

White  
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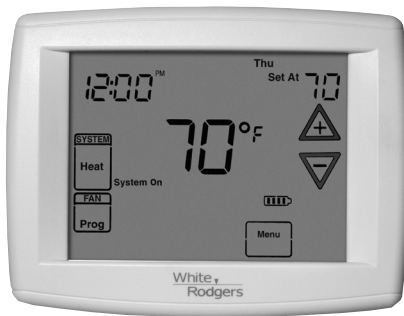
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# WHITE-RODGERS 90 SERIES TOUCHSCREEN THERMOSTATS

White  
Rodgers



**1F95-1277, 1F97-1277**



**1F95-1271, 1F97-1271**



**F145-1328**  
**Indoor Remote Sensor**



**F145-1378**  
**Outdoor Remote Sensor**



## 90 SERIES BLUE TOUCHSCREEN THERMOSTATS

Residential and Light Commercial – Single Stage, Multi-Stage and Heat Pump Applications. 90 Series Blue Touchscreen Thermostats are the Ultimate for Comfort, Convenience and Performance and Visibility

### FEATURES

- Large 12-square-inch touchscreen display – largest in the industry.
- Extra-large touch keys for easy operation.
- Universal Dual-Powered – choice of battery-powered or hardwired with battery back-up.
- Meets ENERGY STAR® specifications.
- Meets California Building Code, Title 24.
- Universal – choice of 7 day, 5/1/1 day programmable or non-programmable (installer selectable).
- Audible feedback.
- 1F95-1277/1F97-1277 include these additional features:
  - Remote sensing indoor/outdoor.
  - Programmable fan.
  - Circulator fan cycling.
  - Automatic daylight savings option.
  - Dual-fuel heat pump control (1F95-1277).
  - Patented Cool Savings.
  - Enhanced security settings.
  - 3 wire zone valve.

### SPECIFICATIONS

#### Electrical Rating

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

Setpoint Range . . . . . 45 to 99°F (7 to 37°C)

Differential (Single Stage) . . . . . Heat 0.6°F; Cool 1.2°F

Differential (Multi-Stage) . . . . . Heat 0.6°F; Cool 1.2°F

Differential (Heat Pump) . . . . . Heat 1.2°F; Cool 1.5°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 . . . . . 4<sup>9</sup>/<sub>16</sub>"H x 5<sup>13</sup>/<sub>16</sub>"W x 1<sup>3</sup>/<sub>16</sub>"D

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

- F29-0198 — Clear plastic thermostat guard
- F29-0220 — Metal thermostat guard
- F61-2600 — Wallplate 8<sup>1</sup>/<sub>8</sub>"W x 5<sup>3</sup>/<sub>8</sub>"H
- F61-2634 — Wallplate 6<sup>1</sup>/<sub>2</sub>"W x 5"H
- F145-1328 — Indoor remote sensor
- F145-1378 — Outdoor remote sensor

**WHITE-RODGERS 90 SERIES THERMOSTATS  
STAGING 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)-Dehumidify		Auto Changeover	Programmable Fan	Energy Mgt. Recovery	Energy Star	Dual Fuel Heat Pump Control (L)-Logic / (O)-Outdoor Sensor	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	Memory Back-Up (P)-Permanent / (B)-Battery		
NEW!	1/1	2/2	3/2	7, 5+1+1, Ø	4, 2, Ø	1F95-1277 Touchscreen	✓	✓	✓		B, H	✓	✓	✓	✓	O ②	T, P	✓	1 + 1	1▼	12.0	✓***	P	RC, RH, C, W/E,W2, Y, Y2, G, O, B, 6, L, +, S, -	
NEW!	1/1	2/2	3/2	7, 5+1+1, Ø	4, 2, Ø	1F95-1271 Touchscreen	✓		✓		B, H	✓		✓	✓		T, P	✓			12.0	✓***	P	RC, RH, C, W/E,W2, Y, Y2, G, L.O, B	

**SINGLE STAGE 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)-Dehumidify		Auto Changeover	Programmable Fan	Energy Mgt. Recovery	Energy Star	Dual Fuel Heat Pump Control (L)-Logic / (O)-Outdoor Sensor	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			Memory Back-Up (P)-Permanent / (B)-Battery
NEW!	1/1		1/1	7, 5+1+1, Ø	4, 2, Ø	1F97-1277 Touchscreen	✓	✓	✓	B, H	✓	✓	✓	✓		T, P	✓	1 + 1	1▼	12.0	✓***	P	RC, RH, C, W, Y, G, O, B, W/E, L, 6, +, S, -	
NEW!	1/1		1/1	7, 5+1+1, Ø	4, 2, Ø	1F97-1271 Touchscreen	✓		✓	B, H	✓		✓	✓		T, P	✓			12.0	✓***	P	RC, RH, C, W, Y, G, L.O, B	

\* 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  
② System requires fossil fuel kit on dual fuel application if outdoor remote is not used  
▼ Only one (1) remote sensor may be used – either Indoor or Outdoor  
\*\*\* Optional Continuous Display Light w/Hardwire connection



**TECHNICAL HELP**

1F97-1271 Wiring and Configuration . . . . See page 169  
1F95-1271 Wiring and Configuration . . . . See page 170-171

# WHITE-RODGERS 90 SERIES THERMOSTATS

White  
Rodgers



**1F97-1277**



**90 Series**



**F145-1328  
Indoor Remote Sensor**



**F145-1378  
Outdoor Remote Sensor**



## 90 SERIES/90 SERIES BLUE THERMOSTATS

Residential and Commercial – Single Stage, Multi-Stage and Heat Pump Applications. 90 Series Thermostats are the Ultimate for Comfort, Convenience and Performance. No Additional Subbases Required

### FEATURES

- Automatic heat/cool system changeover.
- Fossil fuel or electric heat compatible.
- Large Comfort-View™ luminescent display and the industry's first lighted keypad.
- Permanent program memory.
- Configuration menu allows keypad selection of options, no additional subbases required.
- Selectable Energy Management Recovery.
- Onboard system and thermostat diagnostics.
- 90 Series – Single stage models accept 1 remote indoor sensor, staging models accept up to 3 indoor sensors and offer temperature averaging or weighted average by sensor location and program time.
- 90 Series Blue – Only one sensor may be used, either indoor or outdoor.
- Meets Energy Star specifications (except 1F96-344 and 1F93-380).

### SPECIFICATIONS

Electrical Rating Single Stage	.....	mV to 30 VAC, NEC Class II, 50/60 Hz or DC
Electrical Rating Staging	.....	20 to 30 VAC, NEC Class II
Terminal Load	.....	1.5 A per terminal, 2.5 A maximum all terminals combined
Setpoint Range	.....	45 to 99°F (7 to 37°C)
Anticipation, Heating	.....	Adjustable
Anticipation, Cooling	.....	Adjustable
Rated Differential Single Stage	.....	Heat 0.5 to 1.5°F Cool 0.8 to 2.2°F
Rated Differential Staging	.....	Heat 0.5 to 1.5°F Cool 0.5 to 2.2°F
Operating Ambient	.....	32 to +110°F (0 to +43°C)
Operating Humidity	.....	90% non-condensing max.
Shipping Temperature Range	.....	–4 to 150°F (–20 to 65°C)
Dimensions	.....	4 <sup>1</sup> / <sub>8</sub> " H x 6 <sup>7</sup> / <sub>8</sub> " W x 1 <sup>3</sup> / <sub>8</sub> " D – 90 Series 4 <sup>9</sup> / <sub>16</sub> " H x 5 <sup>13</sup> / <sub>16</sub> " W x 1 <sup>3</sup> / <sub>16</sub> " D – 90 Series Blue

### PARTS AND ACCESSORIES

 See end of this section for additional parts and accessories

- F145-1328 — Indoor remote sensor
- F145-1378 — Outdoor remote sensor
- F61-2300 — Wallplate with adapter for vertical j-box for all 1F90s (except Blue)  
7<sup>1</sup>/<sub>2</sub>" W x 5<sup>1</sup>/<sub>2</sub>" H
- F61-2600 — Wallplate 8<sup>1</sup>/<sub>8</sub>" W x 5<sup>3</sup>/<sub>8</sub>" H, for 90 Series Blue models
- F61-2634 — Wallplate 6<sup>1</sup>/<sub>2</sub>" W x 5" H, for 90 Series Blue models
- Thermostat Guards — see pages 28-29

### TECHNICAL HELP

Single Stage Models	
1F90/1F96/1F97 Wiring	..... See page 156
1F90/1F97 Configuration Options	..... See page 157
1F96 Configuration	..... See page 158
1F97-1271 Blue Wiring and Configuration	..... See page 169
Remote Sensor Wiring and Troubleshooting	..... See page 172-175

Staging Models	
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1F92/1F95-371 Wiring	..... See pages 161
1F95-391 Wiring	..... See page 162-165
1F95-Blue Wiring and Configuration	..... See page 170-171
Wiring, Remote Sensor and Troubleshooting	..... See page 172-175

## WHITE-RODGERS 90 SERIES THERMOSTATS – STAGING 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	Dual Fuel Heat Pump Control (L)-Logic / (O)-Outdoor Sensor	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	Memory Back-Up (P)-Permanent / (B)-Battery				
NEW!	1/1	2/2	3/2	7, 5+1+1, Ø	4, 2, Ø	1F95-1277 Touchscreen	✓	✓	✓		B, H	✓	✓	✓	✓	O ②	T, P	✓	1 + 1	1▼	12.0	✓***	P	RC, RH, C, W/E,W2, Y, Y2, G, O, B, 6, L, +, S, -			
NEW!	1/1	2/2	3/2	7, 5+1+1, Ø	4, 2, Ø	1F95-1271 Touchscreen	✓		✓		B, H	✓		✓	✓		T, P	✓			12.0	✓***	P	RC, RH, C, W/E,W2, Y, Y2, G, L,O, B			
	1/1	2/2	3/2	7-day	2	1F93-380 Commercial	✓				H	✓	✓	✓		L	T, P		3 + 1	1	2.3	✓	P	R, C, G, Y1, Y2, W1, W2, W3/A1, E2/P, E, O, B, L, PH, SA, SB, SC, OT			
		2/2	3/2	7-day	4	1F95-391	✓			H,D	H	✓	✓	✓	✓	L,O	T, P		3 + 1	1	2.3	✓	P	R, C, G, Y1, Y2, E/W1, W2, O, B, L, SA, SB, SC, OT, DHM, HM			
		3/2	3/2	7-day	4	1F95-377	✓				H	✓	✓	✓	✓	L	T, P		3 + 1	1	2.3	✓	P	R, C, G, Y1, Y2, W1, W2, W3, E2/P, E, O, B, L, PH, SA, SB, SC, OT			
		2/2	3/2	5+2	4	1F92-371	✓				H	✓	✓	✓	✓		T, P				2.3	✓	P	R, C, G, Y1, Y2, W1, W2, E2/P, E, O, B, L			
		3/2		7-day	4	1F95-371	✓				H	✓	✓	✓	✓		T, P		3 + 1	1	2.3	✓	P	R, C, G, Y1, Y2, W1, W2, W3, O, B, L, PH, SA, SB, SC, OT			
			3/2	7-day	4	1F94-371	①				H	✓	✓	✓	✓	L	T, P		3 + 1	1	2.3	✓	P	R, C, G, Y1, Y2, W1, W2, W3, E2/P, O, B, L, PH, SA, SB, SC, OT			

## SINGLE STAGE 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)-Dehumidify		Auto Changeover	Programmable Fan	Energy Mgt. Recovery	Energy Star	Dual Fuel Heat Pump Control (L)-Logic / (O)-Outdoor Sensor	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	Memory Back-Up (P)-Permanent / (B)-Battery		
NEW!	1/1		1/1	7, 5+1+1, Ø	4, 2, Ø	1F97-1277 Touchscreen	✓	✓	✓		B, H	✓	✓	✓	✓		T, P	✓	1 + 1	1▼	12.0	✓***	P	RC, RH, C, W, Y, G, O, B, W/E, L, 6, +, S, -	
NEW!	1/1		1/1	7, 5+1+1, Ø	4, 2, Ø	1F97-1271 Touchscreen	✓		✓		B, H	✓		✓	✓		T, P	✓			12.0	✓***	P	RC, RH, C, W, Y, G, L, O, B	
	1/1		1/1	7-day	4	1F97-391	✓	✓		H	PS	✓	✓	✓	✓		T, P		1		2.3	✓	P	RC, RH, W, Y, G, 6, HM1, HM2, S1, S2, S3	
	1/1		1/1	7-day	4	1F97-371	✓	✓	✓		PS	✓	✓	✓	✓		T, P		1		2.3	✓	P	RC, RH, W, Y, G, MV, O, B, +, S, -, 6	
	1/1		1/1	5+1+1, 5+2	4	1F90-371	✓	✓	✓		PS	✓	✓	✓	✓		T, P		1		2.3	✓	P	RC, RH, W, Y, G, MV, O, B, +, S, -, 6	
	1/1		1/1	Ø	Ø	1F96-344	✓	✓	✓		PS	✓	✓				T		1		2.3	✓	P	RC, RH, W, Y, G, MV, O, B, +, S, - 6	

\* 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  
 ② System requires fossil fuel kit on dual fuel application if outdoor sensor is not used  
 \*\*\* Optional Continuous Display Light w/Hardwire connection  
 ▼ Only one (1) remote sensor may be used – either Indoor or Outdoor



# WHITE-RODGERS 80 SERIES THERMOSTATS

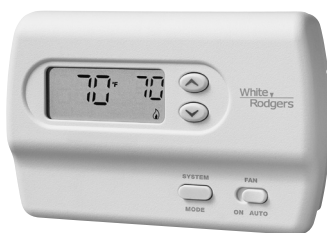
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**1F80-0471**



**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<sup>3</sup>/<sub>4</sub>" H x 6" W x 1<sup>1</sup>/<sub>4</sub>" D

Dimensions 80 Blue Models . . . . . 3<sup>3</sup>/<sub>8</sub>" H x 4<sup>3</sup>/<sub>8</sub>" W x 1<sup>3</sup>/<sub>16</sub>" D

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

- Thermostat Guards — see pages 28-29
- Wallplate F61-2500 — 4<sup>5</sup>/<sub>8</sub>" H x 7<sup>5</sup>/<sub>8</sub>" W for all 1F80's (except Blue)
- Wallplate F61-2600 — 5" H x 6<sup>1</sup>/<sub>2</sub>" W for 80 Series Blue models



**WHITE-RODGERS 80 SERIES THERMOSTATS – STAGING THERMOSTATS**

Single Stage	Multi-Stage	Heat Pump	Programs				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)-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™	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				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)-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™	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
NEW!	1/1		1/1	24 hours	4	1F80-224	✓		✓	B			✓	✓					2.2	✓		P	RC, RH, W, Y, G, O, B
	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

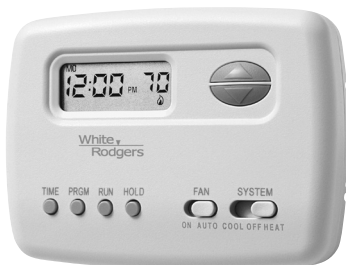
① Heat Pump for Stage 1, and Gas/Oil/Electric for 2nd Stage/Emergency  
 \*\*\* Optional Continuous Display Light w/Hardwire connection  
 ▼ Only one (1) remote sensor may be used – either Indoor or Outdoor

**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

# WHITE-RODGERS 70 SERIES THERMOSTATS

White  
Rodgers



**1F78-151**



**1F73-174**



**1E78-151**



**1E78-144**

## 70 SERIES THERMOSTATS

Residential Single Stage, Multi-Stage and Heat Pump Applications. 70 Series are the Perfect Upgrade from Mechanical Thermostats. Covers Wall Marks Left by Most Mechanical Thermostats Without the Need for an Extra Wall Plate

### FEATURES

- Fossil fuel or electric heat compatible.
- Large LCD with backlight.
- Selectable Celsius or Fahrenheit temperature display.
- Includes B/O terminals.
- Electronic accuracy.

### SPECIFICATIONS

Electrical Rating Single Stage . . . . .	mV to 30 VAC, NEC Class II, 50/60 Hz or DC
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)
Anticipation, Heating . . . . .	Adjustable
Anticipation, Cooling Staging . . . . .	Adjustable
Anticipation, Cooling Single Stage . . . . .	Fixed
Rated Differential, Staging . . . . .	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 . . . . .	3 <sup>3</sup> / <sub>4</sub> " H x 5 <sup>1</sup> / <sub>8</sub> " W x 1 <sup>1</sup> / <sub>8</sub> " D – (1F78) 5 <sup>1</sup> / <sub>4</sub> " H x 3 <sup>3</sup> / <sub>16</sub> " W x 1 <sup>3</sup> / <sub>16</sub> " D – (1E78)

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

- Thermostat Guards — see pages 28-29
- Wallplate — F61-2510 for 1F models with adaptor for horizontal or vertical junction box 6<sup>1</sup>/<sub>2</sub>" W x 4<sup>1</sup>/<sub>2</sub>" H
- Wallplate — F61-2593 for 1D70, 1E70 models with adaptor for horizontal or vertical junction box 4<sup>1</sup>/<sub>2</sub>" W x 6<sup>19</sup>/<sub>32</sub>" H





**WHITE-RODGERS 70 SERIES THERMOSTATS**  
**STAGING 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)-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	Memory Back-Up (P)-Permanent / (B)-Battery
	2/2	2/1	Ø	Ø	1F73-174	✓				H	✓							1.2	✓***	P	R, C, Y, Y2, W/E, W2, G, B/O
		2/1	5+2	4	1F72-151	①				H		✓	✓					1.2	✓***	B	R, C, Y, W2, G, B/O, L, E
		2/1	Ø	Ø	1F79-111	①				H								1.2	✓***	B	R, C, Y, W2, G, B/O, L, E

**SINGLE STAGE 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)-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	Memory Back-Up (P)-Permanent / (B)-Battery
1/1		1/1	7-Day	4	1F78-167	✓		✓		B		✓	✓					1.2	✓	P	RC, RH, W, Y, G, O, B
1/1		1/1	5+2	4	1F78-151	✓		✓		B		✓	✓					1.2	✓	B	RC, RH, W, Y, G, O, B
1/1		1/1	5+2	4	1E78-151 Vertical	✓		✓		B		✓	✓					1.2	✓	B	RC, RH, W, Y, G, O, B
1/1		1/1	5+2	4	1F78H-151	✓				H		✓	✓					1.2	✓	P	RC, RH, C, W, Y, G, O, B
1/1		1/1	Ø	Ø	1F78-144	✓		✓		B								1.2	✓	B	RC, RH, W, Y, G, O, B
1/1		1/1	Ø	Ø	1E78-144 Vertical	✓		✓		B								1.2	✓	B	RC, RH, W, Y, G, O, B
1/1		1/1	Ø	Ø	1F78H-144	✓				H								1.2	✓	P	RC, RH, C, W, Y, G, O, B
1/Ø			Ø	Ø	1E78-140 Vertical	✓		✓		B								1.2	✓	B	RH, W
1/Ø			Ø	Ø	1D78-140	✓	Temporary Construction Thermostat (Requires 1E78 Subbase or Order F4-1748 Subbase)													RH, W	

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

① Heat Pump for Stage 1, and Gas/Oil/Electric for 2nd Stage/Emergency  
 \*\*\* Optional Continuous Display Light w/Hardwire connection

**TECHNICAL HELP**

Single Stage Configuration/Wiring, 1F Models only . . . . . See pages 189-190  
 Single Stage Configuration/Wiring, 1E78 Models only . . . . . See pages 185  
 Multi-Stage Configuration/Wiring, 1F Models only . . . . . See pages 186-187  
 Heat Pump Configuration/Wiring, 1F Models only . . . . . See pages 188

# REMOTE SENSORS

White  
Rodgers

# DIGITAL 90 SERIES THERMOSTATS



**F145-1328**  
**Indoor Remote Sensor**



**F145-1378**  
**Outdoor Remote Sensor**



## REMOTE SENSORS FOR THERMOSTATS

Indoor and Outdoor Sensors for Digital Thermostats

### FEATURES

- Digital signal output provides superior temperature control, even over long wire runs.
- No temperature variance caused by wire resistance.
- Choice of styling, indoor models are interchangeable.
- Perfect for securing the thermostat in one area or room while sensing temperature in the conditioned space.

### SPECIFICATIONS

Operating Range (based on thermostat range)

Indoor Models . . . . . 40 to 99°F

Outdoor Models . . . . . -40 to 140°F

Operating Humidity Range . . . . . 0 to 90% RH (non-condensing)

Maximum Distance from Thermostat . . . . 300'

Recommended Wire . . . . . 20 gauge, 3-conductor shielded cable

### TECHNICAL HELP

Remote Sensor Wiring/Troubleshooting. . . . . See page 172-175

#### INDOOR SENSOR

Model Number	Color	Dimensions	Application
F145-1328	Classic White	2 1/8" x 3 1/2" x 3/4"	Compatible with all White-Rodgers 90 Series Thermostats with Indoor Remote Sense

#### OUTDOOR SENSOR

Model Number	Color	Dimensions	Application
F145-1378	Classic White	2 1/8" x 3 1/2" x 3/4"	Compatible with all White-Rodgers 90 Series Staging Thermostats with Outdoor Remote Sensing with 12 ft. sensor lead

**CONTRACTOR TIP:** REMOTE SENSOR TROUBLESHOOTING, WIRING AND AVERAGING INFORMATION IS ON PAGES 172-175.

#### CONNECTION CROSS REFERENCE – THERMOSTATS & REMOTE SENSORS

Old Terminal (Thermostat or Remote)	New Terminal (Thermostat or Remote)
S1	+
S2	S
S3	-

#### REMOTE TERMINAL DESIGNATIONS

Model Number	Terminal Designation Cross Reference		
F145-1328, F145-1378	+	S	-
	Sensor Positive	Sensor Return Signal	Sensor Negative



**21D85-2MS**



**1F85CA-277**

## COMFORT ALERT™

Diagnostic and Compressor Protection Package for Copeland Scroll Residential Compressors

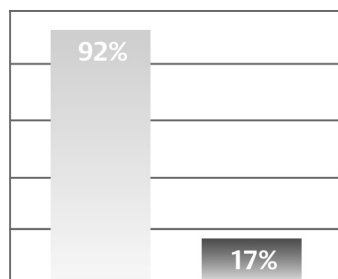
### FEATURES

- Increase technician troubleshooting accuracy.
- Module diagnoses compressor conditions and communicates to thermostat.
- Thermostat and module display fault codes.
- Thermostat provides enhanced compressor protection.

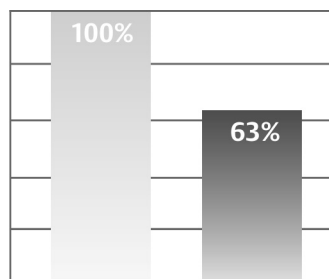
Model Number	Application	Description
21D85-2MS	Multi-Stage or Heat Pump	Comfort Alert Diagnostic Module, 1F85CA-277 Thermostat
1F85CA-277	Single Stage Multi-Stage Heat Pump	80 Series Universal Thermostat Only

## Problem-Solving Accuracy

Troubleshooting Air Conditioning Systems with and without Comfort Alert



Entry-Level Technicians



Experienced Technicians

- Accuracy with Comfort Alert
- Accuracy without Comfort Alert






# THERMOSTAT SELECTION GUIDE

## “INSTANT EXPERT”

White  
Rodgers

# MECHANICAL THERMOSTATS

THERMOSTAT SERIES	SINGLE OR STAGING	TYPICAL APPLICATION	CONTACTS	SHAPE	MODEL NUMBER	COLOR	STAGES HEAT/COOL	SYSTEM SWITCH	FAN SWITCH	ANTICIPATION HEAT/COOL	RANGE	TERMINALS <sup>①</sup>
<b>Mechanical Thermostats</b>  <b>1F56W-911</b>  <b>1F56W-444</b>  <b>1E56W-444</b>	Single Stage	Heat/Cool (Gas, Oil)	Mercury Cell	Horizontal	<b>1F56-301</b>	Beige	1/1	Heat-Off-Cool	Auto-On	Adjustable/ Fixed	50° to 90°F	RC, RH, W, Y, G
		Electric Heat/Cool	Mercury Cell	Horizontal	<b>1F56-306</b>	Beige	1/1	Heat-Off-Cool	Auto-On	Adjustable/ Fixed	50° to 90°F	RC, RH, W, Y, G
		2-Wire Heat Only	Mercury Cell	Vertical	<b>1E30-373</b>	Beige	1/0	None	None	Adjustable	40° to 75°F	2 Unmarked
		2-Wire Heat Only	Mercury Cell	Vertical	<b>1E30-913</b>	Beige	1/0	None	None	Non-Anticipated	50° to 90°F	2 Unmarked
		2-Wire Heat Only	Mercury Cell	Vertical	<b>1E30-914</b>	Beige	1/0	Lowest Temp. is "Off"	None	Non-Anticipated	50° to 90°F	4, 5
		Heat Only	Mercury Cell	Vertical	<b>1E35-910</b>	Beige	1/0	None	None	Fixed	50° to 90°F	4, 5, 6
		3-Wire Zone Heat Only	Mercury Cell	Vertical	<b>1F35-910</b>	Beige	1/0	None	None	Fixed	50° to 90°F	R5, Y6, 4
		Heat Only	Mercury Cell	Horizontal	<b>1F36-910</b>	Beige	1/0 or 0/1	None	None	Adjustable/ Fixed	50° to 90°F	R5, Y6, 4
		3-Wire Zone Heat Only	Mercury Cell	Horizontal	<b>1F57-312</b>	Beige	2/2	Heat-Off-Cool	Auto-On	Adjustable/ Fixed	50° to 90°F	R, G, W1, W2, Y1, Y2
		2-Wire Heat Only or 2-Wire Cool Only	Mercury Cell	Horizontal	<b>1E56W-444</b>	Classic White <sup>②</sup>	1/1	Heat-Off-Cool	Auto-On	Adjustable/ Fixed	50° to 90°F	RC, RH, W, Y, G, O, B, A
	Single Stage	Universal Style Fossil Fuel or Electric Heat/Cool	Mercury Cell	Horizontal	<b>1F56W-444</b>	Classic White <sup>②</sup>	1/1	Heat-Off-Cool	Auto-On	Adjustable/ Fixed	50° to 90°F	RC, RH, W, Y, G, O, B, A
		2-Wire Heat/Cool	Snap-Action Mercury Cell	Horizontal	<b>1D56W-347</b>	Classic White <sup>②</sup>	1/1	Heat-Off-Cool	Auto-On	Adjustable/ Fixed	50° to 90°F	RC, RH, W, Y, G, O, B, A
		2-Wire Heat Only	Mercury Cell	Horizontal	<b>1F56W-911</b>	Classic White <sup>②</sup>	1/1	Heat-Off-Cool	Auto-On	Adjustable/ Fixed	50° to 90°F	RC, RH, W, Y, G, O, B, A
		Heat Only, Convertible to Heat-Off-Cool	Mercury Cell	Vertical	<b>1E30W-910</b> <sup>③</sup>	Classic White <sup>②</sup>	1	None	None	Adjustable	50° to 90°F	4, 5
		2-Wire Heat Only	Mercury Cell	Vertical	<b>1C30-333</b>	Beige	1 or 1/1	None	None	Adjustable	50° to 90°F	4, R5, (Y6)
	Staging	Universal Style Fossil Fuel or <sup>④</sup>	Snap-Action	Vertical	<b>1C20-101</b>	Classic White	1	None	None	Adjustable	50° to 90°F	R, W
		Heat Only	Snap-Action	Vertical	<b>1C26-101</b>	Classic White	1/1	Heat-Off-Cool	Auto-On	Adjustable/ Fixed	50° to 90°F	RC, RH, W, Y, G, O, B, A
		Multi-Stage	Mercury Cell	Horizontal	<b>1F57-306</b>	Beige	2/2	Heat-Off-Cool	Auto-On	Adjustable/ Fixed	50° to 90°F	R, G, W1, W2, Y1, Y2
		Heat Pump	Mercury Cell	Horizontal	<b>1F58W-72</b>	Classic White <sup>②</sup>	2/1	Heat-Off-Cool-Emergency	Auto-On	1st Stage Fixed, 2nd Stage: Adjustable/Fixed	50° to 90°F	R, G, L, X1, E, O, B, W2, Y

<sup>③</sup> Includes mounting plate

<sup>④</sup> Electric Heat/Cool

<sup>①</sup> Terminals in ( ) not used

<sup>②</sup> For Beige, omit "W" in Model Number

## SINGLE STAGE

White  
RodgersLOW VOLTAGE  
THERMOSTATS

1F56-444



1F56W-444

**HEATING/COOLING AND COOLING ONLY —  
WITH SELECTOR SWITCHES**

Reliable Performance Combined With Thin-Profile Subbase Mounting Plate. Entire Unit Only Extends 1<sup>5</sup>/<sub>8</sub>" From Wall

**FEATURES**

- Dustproof sealed mercury cells or snap-action contacts with dust cover.
- Classic White or Beige color.
- Positive contact snap-switches on subbase.
- Bi-Metal thermometer.
- Heating and cooling anticipators provide narrow differential control of room temperature.

**SPECIFICATIONS**

Anticipation, Heating . . . . .	Adjustable from 0.15 to 1.2 Amps
Anticipation, Cooling . . . . .	Fixed
Differential, Heating . . . . .	1°F
Differential, Cooling . . . . .	1.5°F
Dimensions . . . . .	3 <sup>1</sup> / <sub>4</sub> " H x 4 <sup>1</sup> / <sub>2</sub> " W x 1 <sup>5</sup> / <sub>8</sub> " D including subbase
Electrical Rating . . . . .	30 VAC maximum, NEC Class II

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

- F92-0563 — Temperature lever locking or limiting kit
- F61-2068 — Wallplate (5<sup>5</sup>/<sub>8</sub>" x 5<sup>3</sup>/<sub>4</sub>" ) with adapter for vertical J-box
- F61-2072 — Wallplate (5<sup>5</sup>/<sub>8</sub>" x 5<sup>3</sup>/<sub>4</sub>" ) only
- Thermostat Guards — see pages 28-29

**TECHNICAL HELP**

Typical Wiring Diagram. . . . . See page 191

Model Number	Typical Application	Color	Stages Heat/Cool	System Switch	Fan Switch	Contacts	Anticipation Heat/Cool	Range	Shape	Terminals
1D56-347	Universal Style Fossil Fuel or ①	Beige	1/1	Heat-Off-Cool	Auto-On	Snap-Action	Adjustable/Fixed	50-90°F	Horizontal	RC, RH, W, Y, G, O, B, A
1D56W-347	Universal Style Fossil Fuel or ①	Classic White	1/1	Heat-Off-Cool	Auto-On	Snap-Action	Adjustable/Fixed	50-90°F	Horizontal	RC, RH, W, Y, G, O, B, A
1E56-444	Universal Style Fossil Fuel or ①	Beige	1/1	Universal Design Heat-Off-Cool	Auto-On	Mercury Cell	Adjustable/Fixed	50-90°F	Vertical	RC, RH, W, Y, G, O, B, A
1E56W-444	Universal Style Fossil Fuel or ①	Classic White	1/1	Universal Design Heat-Off-Cool	Auto-On	Mercury Cell	Adjustable/Fixed	50-90°F	Vertical	RC, RH, W, Y, G, O, B, A
1F56-301	Heat/Cool	Beige	1/1	Heat-Off-Cool	Auto-On	Mercury Cell	Adjustable/Fixed	50-90°F	Horizontal	RH, RC, W, Y, G
1F56-306	Electric Heat/Cool	Beige	1/1	Heat-Off-Cool	Auto-On	Mercury Cell	Adjustable/Fixed	50-90°F	Horizontal	4, R, W, Y, G
1F56-444	Universal Style Fossil Fuel or ①	Beige	1/1	Heat-Off-Cool	Auto-On	Mercury Cell	Adjustable/Fixed	50-90°F	Horizontal	RC, RH, W, Y, G, O, B, A
1F56W-444	Universal Style Fossil Fuel or ①	Classic White	1/1	Heat-Off-Cool	Auto-On	Mercury Cell	Adjustable/Fixed	50-90°F	Horizontal	RC, RH, W, Y, G, O, B, A
1F56W-911	Universal Style Fossil Fuel or ①	Classic White	1/1	Heat-Off-Cool	Auto-On	Mercury Cell	Adjustable/Fixed	50-90°F	Horizontal Rounded	RC, RH, W, Y, G, O, B, A
1E56-309	Heat/Cool	Beige	1/1	Heat-Off-Cool	Auto-On	Mercury Cell	Adjustable/Fixed	50-90°F (10-32°C)	Vertical	4, RC, W, Y, G
1E56W-309	Heat/Cool	Classic White	1/1	Heat-Off-Cool	Auto-On	Mercury Cell	Adjustable/Fixed	50-90°F (10-32°C)	Vertical	4, RC, W, Y, G
1F56-361	Heat/Cool	Beige	1/1	Heat-Off-Cool	Auto-On	Mercury Cell	Adjustable/Fixed	50-90°F (10-32°C)	Horizontal	RH, RC, W, Y, G
1F56W-361	Heat/Cool	Classic White	1/1	Heat-Off-Cool	Auto-On	Mercury Cell	Adjustable/Fixed	50-90°F (10-32°C)	Horizontal	RH, RC, W, Y, G

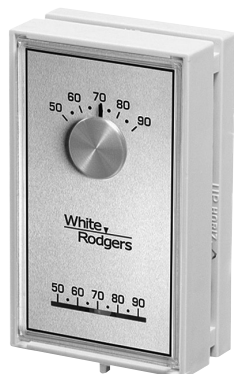
① Electric Heat/Cool

✻ Indicates Canadian Model Number: call 1-800-305-6953 to order

# LOW VOLTAGE THERMOSTATS

White  
Rodgers

## SINGLE STAGE



**1E30-910**



**1E30W-910**

### VERTICAL THERMOSTATS WITH MERCURY CELL SWITCH

Vertical Thermostat Model For Control Of Low Voltage Heating,  
Cooling And Zoning Installations

#### FEATURES

- Sealed mercury cells provide long life and protection against dirt and moisture.
- Heating and cooling anticipators provide narrow differential control of room temperature.
- Snap-on cover, except as noted ②.
- Classic White or Beige color.

#### SPECIFICATIONS

Anticipation, Heating. . . . .	Adjustable from 0.15 to 1.0 amps (except millivolt models)
Anticipation, Cooling. . . . .	Fixed
Differential, Heating . . . . .	1°F
Differential, Cooling . . . . .	1.5°F
Differential, Millivolt Heating . . . . .	3°F
Dimensions. . . . .	4½" H x 2¾" W x 1½" D
Electrical Rating . . . . .	30 VAC maximum, NEC Class II

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

- F92-0563 — Temperature lever locking or limiting kit
- F61-2068 — Wallplate (5⅝" x 5¾") with adapter for vertical J-box
- F61-2072 — Wallplate (5⅝" x 5¾") only
- Thermostat Guards — see pages 28-29

Model Number	Typical Application	Color	Stages Heat/Cool	System Switch	Fan Switch	Contacts	Anticipation Heat/Cool	Range	Shape	Terminals ④
1E30-343	Heat Only	Beige	1	None ①	None	Mercury Cell	Adjustable	50-90°F	Vertical	4, R5, (Y6)
1E30-373	Heat Only	Beige	1	None	None	Mercury Cell	Adjustable	40-75°F ②	Vertical	2 Unmarked Terminals Open on Rise
1E30-374	Heat Only	Beige	1	None	None	Mercury Cell	Adjustable	40-72°F ②	Vertical	2 Unmarked Terminals Open on Rise
1E30-910	Heat Only	Beige	1	None	None	Mercury Cell	Adjustable	50-90°F	Vertical	4, R5, (Y6) ③
1E30-913	Millivolt Heat Only	Beige	1	None	None	Mercury Cell	Non-Anticipated	50-90°F	Vertical	2 Unmarked Terminals Open on Rise. If included, Mounting Plate is used Terminals are 4, 5, (Y6)
1E30-914	Millivolt Heat Only	Beige	1	None ①	None	Mercury Cell	Non-Anticipated	50-90°F	Vertical	2 Unmarked Terminals Open on Rise. If included, Mounting Plate is used Terminals are 4, 5, (Y6)
1E30W-910	Heat Only	Classic White	1	None	None	Mercury Cell	Adjustable	50-90°F	Vertical	4, R5, (Y6) ③
1E35-910	3 Wire Zone Valve Heat Only	Beige	1	None	None	Mercury Cell	Fixed	50-90°F	Vertical	4, 5, 6
1E30W-609	Millivolt Heat Only	Classic White	1	None	None	Mercury Cell	Non-Anticipated	50-90°F (10-32°C)	Vertical	2 Unmarked Terminals Open on Rise

① Lowest temperature setting is "OFF" position

② Meets HUD specifications and includes locking cover.

③ Includes mounting plate

④ Terminals in ( ) not used



## SINGLE STAGE

White  
RodgersLOW VOLTAGE  
THERMOSTATS**1F30-910****1F30W-301****HORIZONTAL THERMOSTATS  
WITH MERCURY CELL SWITCH**

Horizontal Thermostat Model For Control Of Low Voltage Heating, Cooling, Heating/Cooling And Zoning Installations

**FEATURES**

- Sealed mercury cells provide long life by protecting against dirt and moisture.
- Heating and/or cooling anticipators provide narrow differential control of room temperature.
- Beige or Classic White color.

**SPECIFICATIONS**

Anticipation, Heating. . . . .	Adjustable from 0.15 to 1.0 Amps (except millivolt models)
Anticipation, Cooling. . . . .	Fixed
Differential, Heating . . . . .	1°F
Differential, Cooling . . . . .	1.5°F
Differential, Millivolt Heating . . . . .	1°F
Dimensions. . . . .	2 <sup>3</sup> / <sub>4</sub> " H x 4 <sup>1</sup> / <sub>2</sub> " W x 1 <sup>1</sup> / <sub>2</sub> " D
Electrical rating. . . . .	30 VAC maximum, NEC Class II

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

- F92-0563 – Temperature lever locking or limiting kit
- F61-2068 – Wallplate (5<sup>5</sup>/<sub>8</sub>" x 5<sup>3</sup>/<sub>4</sub>" ) with adapter for vertical J-box
- F61-2072 – Wallplate only (5<sup>5</sup>/<sub>8</sub>" x 5<sup>3</sup>/<sub>4</sub>" )
- Thermostat guards, see pages 28-29

Model Number	Typical Application	Color	Stages Heat/Cool	System Switch	Fan Switch	Contacts	Anticipation Heat/Cool	Range	Shape	Terminals ①
1F30-910	Heat Only	Beige	1	None	None	Mercury Cells	Adjustable	50-90°F	Horizontal	4, 5, (Y6)
1F35-910	3-Wire Zone	Beige	1	None	None	Mercury Cells	Fixed	50-90°F	Horizontal	R5, Y6, 4
1F36-910	Heat Only	Beige	1	None	None	Mercury Cells	Adjustable/ Fixed	50-90°F	Horizontal	4, R5, Y6
✻ 1F30-301	Heat Only (24v)	Beige	1	None	None	Mercury Cells	Adjustable	50-90°F (10-32°C)	Horizontal	4, 5, (Y6)
✻ 1F30W-301	Heat Only (24v)	Classic White	1	None	None	Mercury Cells	Adjustable	50-90°F (10-32°C)	Horizontal	4, 5, (Y6)
✻ 1F30W-604	Millivolt Heat Only	Classic White	1	None	None	Mercury Cells	Non-anticipated	50-90°F (10-32°C)	Horizontal	4, 5, (Y6)

① Terminals in parenthesis not used

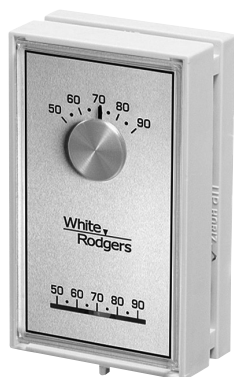
# LOW VOLTAGE THERMOSTATS

White  
Rodgers

## SINGLE STAGE



**1D30-316**



**1C30-333**

### THERMOSTATS WITH SNAP-ACTION SWITCH

For Low Voltage Heating, Cooling And Zoning Installations Where A Snap-Action Control Is Desired

#### FEATURES

- Snap-Action contacts with dust cover.
- Not affected by jarring or vibrations.
- Ideal for mobile home use.
- Heating and cooling anticipators provide narrow differential control of room temperature.
- Beige or Classic White color.

#### SPECIFICATIONS

Anticipation, Heating . . . . .	Adjustable from 0.15 to 1.0 Amps
Anticipation, Cooling . . . . .	Fixed
Differential, Heating . . . . .	1°F
Differential, Cooling . . . . .	1.5°F
Dimensions, Horizontal. . . . .	2 <sup>3</sup> / <sub>4</sub> " H x 4 <sup>1</sup> / <sub>2</sub> " W x 1 <sup>1</sup> / <sub>2</sub> " D
Dimensions, Vertical. . . . .	4 <sup>1</sup> / <sub>2</sub> " H x 2 <sup>3</sup> / <sub>4</sub> " W x 1 <sup>1</sup> / <sub>2</sub> " D
Electrical Rating . . . . .	30 VAC maximum, NEC Class II

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

- F92-0563 — Temperature lever locking or limiting kit
- F61-2068 — Wallplate (5<sup>5</sup>/<sub>8</sub>" x 5<sup>3</sup>/<sub>4</sub>" ) with adapter for vertical J-box
- F61-2072 — Wallplate (5<sup>5</sup>/<sub>8</sub>" x 5<sup>3</sup>/<sub>4</sub>" ) only
- Thermostat Guards — see pages 28-29

Model Number	Typical Application	Color	Stages Heat/Cool	System Switch	Fan Switch	Contacts	Anticipation Heat/Cool	Range	Shape	Terminals ①
1C30-302	Heat Only	Beige	1	None	None	Snap-Action	Adjustable	50 to 90°F	Vertical	4, R5
1C30-321	Heat Only	Beige	1	None	None	Snap-Action	Adjustable	50 to 90°F	Vertical	2 Unmarked Terminals, Open on Rise
1C30-333	Heat Only	Beige	1	None	None	Snap-Action	Adjustable	50 to 90°F	Vertical	4, R5, (Y6)
1D30-316	Heat Only	Beige	1	None	None	Snap-Action	Adjustable	50 to 90°F	Horizontal	2 Unmarked Terminals, Open on Rise
1D36-316	Heat Only	Beige	1	None	None	Snap-Action	Adjustable	50 to 90°F	Horizontal	4, R5, (Y, O)

① Terminals in ( ) not used

## SINGLE STAGE

White  
RodgersLOW VOLTAGE  
THERMOSTATS**1C20-101****1C26-101****ECONOMY MECHANICAL THERMOSTATS**

Reliable Performance in an Attractive Design

**FEATURES**

- Rugged snap-action contacts.
- Adjustable heat anticipator.
- Bi-Metal thermometer.
- Heat/Cool model includes switching subbase.
- Heat/Cool model compatible with Electric Heat systems.
- Classic White color.

**SPECIFICATIONS**

Anticipation Rating, Heating . . . . . Adjustable from 0.15 to 1.2 Amps  
 Anticipation Rating, Cooling . . . . . Fixed  
 Differential, Heating . . . . . 2°F (1.1°C)  
 Differential, Cooling . . . . . 4°F (2.2°C)  
 Dimensions . . . . . 3<sup>3</sup>/<sub>4</sub>" H x 2<sup>7</sup>/<sub>8</sub>" W x 1<sup>1</sup>/<sub>2</sub>" D  
 Dimensions, Switching Models . . . . . 3<sup>3</sup>/<sub>4</sub>" H x 3<sup>1</sup>/<sub>8</sub>" W x 1<sup>5</sup>/<sub>8</sub>" D  
 Electrical Rating . . . . . mV to 30V, 50/60 Hz or DC

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

- Thermostat Guards — see pages 28-29
- Wallplate F61-2499 — 5<sup>1</sup>/<sub>8</sub>" H x 5" W

**TECHNICAL HELP**

Configuration/Wiring . . . . . See page 191

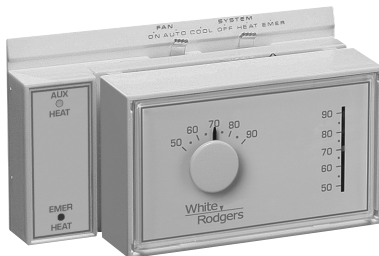


Model Number	Typical Application	Stages Heat/Cool	System Switch	Fan Switch	Contacts	Anticipation Heat/Cool	Range	Shape	Terminals
<b>1C20-101</b>	Heat Only ③	1	None ①	None	Snap-Action	Adjustable	50-90°F (10-32°C)	Vertical	R, W
<b>1C20-102</b>	Heat Only	1	None	None	Snap-Action	Adjustable	50-90°F (10-32°C)	Vertical	R, W
<b>1C21-101</b>	Cool Only	1	None	None	Snap-Action	Fixed	50-90°F (10-32°C)	Vertical	R, Y
<b>1C26-101</b>	Heat/Cool ② ③	1/1	Heat-Off-Cool	Auto-On	Snap-Action	Adjustable/Fixed	50-90°F (10-32°C)	Vertical	RC, RH, W, Y, G, O, B, A

① Lowest temperature setting is "OFF" position

② Includes optional "A" terminal connection for Electric Heat systems that require the thermostat to energize the Blower (G terminal) on a call for heat

③ Includes F61-2499 wall mounting plate to cover marks left by previous thermostat


**1F58-58**

**1F58W-58**


## UNIVERSAL HEAT PUMP THERMOSTATS

For Low Voltage Systems Up to 2 Stages Heat, 1 Stage Cool

### FEATURES

- Manual changeover.
- Dual mercury cell arrangement on a single bimetal coil.
- Beige or Classic White color.
- Thermostat mounts to subbase with positive grasping captive screws.
- Subbase included.

### SPECIFICATIONS

Anticipation: Heating. . . . .	Fixed 1st stage 2nd stage 0.15 to 1.2A
Anticipation: Cooling. . . . .	Fixed
Differential between Heat Stages. . . . .	2 to 4°F (1.1 to 2.2°C) fixed
Dimensions thermostat & subbase. . . . .	3 1/4" H x 5 3/4" W x 2 1/8" D (with indicator lights) 3 1/4" H x 4 1/2" W x 2 1/8" D (without indicator lights)
Electrical Rating . . . . .	30 VAC maximum, NEC Class II
Temperature Range . . . . .	50 to 90°F

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

- Thermostat guards, see pages 28-29

### TECHNICAL HELP

Wiring . . . . . See page 192

Model Number	Typical Application	Color	Stages Heat/Cool	System Switch	Fan Switch	Contacts	Anticipation Heat/Cool	Shape	Indicator Lights	Terminals
1F58-58	Heat Pump	Beige	2/1	Heat, Off, Cool, Emergency	Auto, On	Mercury Cell	1st Stage Fixed, 2nd Stage Adjustable/Fixed	Horizontal	Emergency ②, Auxiliary ③	R, G, L, C, E, W2, Y, O
1F58-72	Heat Pump	Beige	2/1	Heat, Off, Cool, Emergency ①	Auto, On	Mercury Cell	1st Stage Fixed, 2nd Stage Adjustable/Fixed	Horizontal	Emergency, Auxiliary, Signal	R, G, L, X1, E, O, B, W2, Y
1F58-77	Heat Pump	Beige	2/1	Heat, Off, Cool, Emergency ①	Auto, On	Mercury Cell	1st Stage Fixed, 2nd Stage Adjustable/Fixed	Horizontal		R, G, X1, E, O, B, W2, Y
1F58W-58	Heat Pump	Classic White	2/1	Heat, Off, Cool, Emergency	Auto, On	Mercury Cell	1st Stage Fixed, 2nd Stage Adjustable/Fixed	Horizontal	Emergency ②, Auxiliary ③	R, G, L, C, E, W2, Y, O
1F58W-72	Heat Pump	Classic White	2/1	Heat, Off, Cool, Emergency ①	Auto, On	Mercury Cell	1st Stage Fixed, 2nd Stage Adjustable/Fixed	Horizontal	Emergency, Auxiliary, Signal	R, G, L, X1, E, O, B, W2, Y
1F58W-77	Heat Pump	Classic White	2/1	Heat, Off, Cool, Emergency ①	Auto, On	Mercury Cell	1st Stage Fixed, 2nd Stage Adjustable/Fixed	Horizontal		R, G, X1, E, O, B, W2, Y

① Fan relay not energized on call for heat in emergency heat mode

② Light energized continuously in emergency heat mode

③ Auxiliary light can also be wired to indicate a system malfunction when attached to a system malfunction switch in the pump

**1F57-306****MULTI-STAGE THERMOSTATS**

For Multi-Stage Low Voltage Heating/Cooling Combinations

**FEATURES**

- Single bimetal construction.
- Controls up to 2 stages of heat and 2 stages of cooling.
- Subbase has system & fan switches to select system function & blower operation.
- Dustproof, sealed mercury cells for reliable operation.
- Beige color.

**SPECIFICATIONS**

Anticipation: Heating . . . . .	Adjustable 1st stage 0.15 to 1.0A 2nd stage non-anticipated
Anticipation: Cooling . . . . .	Fixed 1st stage 0 to 1.5A 2nd stage non-anticipated
Differential, Heating . . . . .	1°F
Differential, Cooling . . . . .	1.5°F
Dimensions . . . . .	3 1/4" H x 4 1/2" W x 2" D
Electrical rating . . . . .	30 VAC maximum, NEC Class II
Temperature Range . . . . .	50 to 90°F

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

- F92-0563 – Temperature lever locking or limiting kit
- Thermostat guards, see pages 28-29

Model Number	Typical Application	Color	Stages Heat/Cool	System Switch	Fan Switch	Contacts	Anticipation Heat/Cool	Shape	Terminals
1F57-306	Multi-Stage	Beige	2/2	Heat, Off, Cool	Auto, On	Mercury Cells	Adjustable/Fixed	Horizontal	R, G, W1, W2, Y1, Y2
1F57-312	Multi-Stage	Beige	2/2	Heat Ⓛ, Off, Cool	Auto, On	Mercury Cells	Adjustable/Fixed	Horizontal	R, G, W1, W2, Y1, Y2
1F57W-314	Multi-Stage	Classic White	2/2	Heat, Off, Cool	Auto, On	Mercury Cells	Adjustable/Fixed	Horizontal	R, G, W1, W2, Y1, Y2

① Thermostat energizes fan on call for heat for electric heat applications

**OUTDOOR HEAT PUMP THERMOSTATS**

Provides Auxiliary Heater "Lockout" During Mild Weather

**FEATURES**

- Mounts inside heat pump.
- Adjustable 0 to 50°F range.
- Calibrated temperature dial.
- Snap-Action switch.

**SPECIFICATIONS**

Dimensions . . . . .	1 1/4" W x 3 1/2" (to mounting hole centers) x 2 1/2" D
Bulb size . . . . .	3 1/2" x 3/8"
Capillary length . . . . .	48"
Lead length . . . . .	6"
Agency . . . . .	U.L. recognized and C.S.A. certified

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

Model Number	Range	Differential	Switch Action	Resistive (Non-Inductive)			Motor Rating (Full Load)		Motor Rating (Locked Rotor)	
				120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	120 VAC	240 VAC
2B61-186	0 to 50°F (-18 to 10°C) in 128°F of ARC	6°F	Open on Rise	25.0A	25.0A	22.0A	10.0A	6.0A	60.0A	36.0A
2B61-430 ①	0 to 50°F (-18 to 10°C) in 128°F of ARC	6°F	Open on Rise	25.0A	25.0A	22.0A	10.0A	6.0A	60.0A	36.0A

① Same as 2B61-186, except it features a metal stamped temperature indicator instead of black plastic knob.

✻ Indicates Canadian Model Number: call 1-800-305-6953 to order

# EVAPORATIVE COOLING

White  
Rodgers



**21D28-3**

## EVAPORATIVE COOLING THERMOSTAT & CONTROL BOX

Functions as a Switching Device for the Thermostat to Provide an Even Level of Cooling Plus a Choice of High and Low Speed Control of the Fan on Evaporative Coolers

### FEATURES

- Grey plastic case is lightweight, weather-resistant and meets all code requirements.
- Fully automatic, system designed with a fan delay (approximately 60 seconds) to pre-wet the cooler pads before the fan starts.
- Separate fan and pump relays. High or low fan speed selection.
- Relay panel is removable from enclosure to facilitate field wiring.
- Integral transformer 120/240 VAC to 24 VAC 60 Hz.

### SPECIFICATIONS

Dimensions <b>1F51W-619</b> .....	3 1/4" H x 4 1/2" W x 1 5/8" D
Dimensions <b>8A18Z-2</b> .....	8" H x 6" W x 3" D
Electrical Rating <b>1F51W-619</b> .....	24 VAC (30 VAC maximum) Fixed anticipator



### TECHNICAL HELP

Wiring Diagram..... See page 194

Model Number	Package Consists of:
<b>21D28-3</b>	1F51W-619 and 8A18Z-2

Model Number	Color	Range	Differential	System Switch Positions	
				System	Fan
<b>1F51W-619</b>	Classic White	Scale 1-2-3-4-5 (55 to 95°F) ①	1°F	Off – Cool – Vent	Hi – Lo

① No thermometer

### CONTACT RATINGS

Model Number	Input Voltage	Combined Relay Loads		Pump Relay		Fan Relay	
		Full Load	Locked Rotor	Full Load	Locked Rotor	Full Load	Locked Rotor
<b>8A18Z-2</b> ①	120 VAC	16.0A	96.0A	10.0A	60.0A	12.0A	72.0A
	240 VAC	8.0A	48.0A	5.0A	30.0A	6.0A	36.0A

① U.L. listed



**HUMIDISTATS**

Provides Automatic Control of Humidification Equipment for Optimum Humidity Control

**2271-100****FEATURES**

- Choice of horizontal or vertical mounting.
- Line voltage or low voltage.
- Snap-Action switch.
- Mounts on 2" x 3" single gang box.
- Pigtail leads.

**SPECIFICATIONS**

Dimensions. . . . . Horizontal 2<sup>3</sup>/<sub>4</sub>" H x 4<sup>1</sup>/<sub>2</sub>" W x 2<sup>7</sup>/<sub>16</sub>" D  
 Vertical 4<sup>1</sup>/<sub>2</sub>" H x 2<sup>3</sup>/<sub>4</sub>" W x 2<sup>7</sup>/<sub>16</sub>" D

Model Number	Description	Switch Action	Range	Differential	Contact Ratings
2271-100	Humidistat (Horizontal)	Open on Rise	10% to 60% RH	5% RH	120 VAC, .5A Pilot Duty 30 VAC, 60 VA

**2273W-21****DEHUMIDISTATS**

Provides Automatic Control of Dehumidification Equipment or Operates Damper/Exhaust Fans to Control Humidity Levels

**FEATURES**

- White color case. Choice of horizontal or vertical styling.
- Line voltage or low voltage.
- Snap-Action switch.
- Mounts on 2" x 3" single gang box.
- Pigtail leads.

**SPECIFICATIONS**

Dimensions. . . . . Horizontal 2<sup>3</sup>/<sub>4</sub>" H x 4<sup>1</sup>/<sub>2</sub>" W x 2<sup>7</sup>/<sub>16</sub>" D  
 Vertical 4<sup>1</sup>/<sub>2</sub>" H x 2<sup>3</sup>/<sub>4</sub>" W x 2<sup>7</sup>/<sub>16</sub>" D

Model Number	Description	Switch Action	Range	Differential	Contact Ratings
2273W-21	Dehumidistat (Horizontal)	Close on Rise	30% to 80% RH	5% RH	120 VAC, 1.0A Pilot Duty 30 VAC, 60 VA
2274W-21	Dehumidistat (Vertical)	Close on Rise	30% to 80% RH	5% RH	120 VAC, 1.0A Pilot Duty 30 VAC, 60 VA

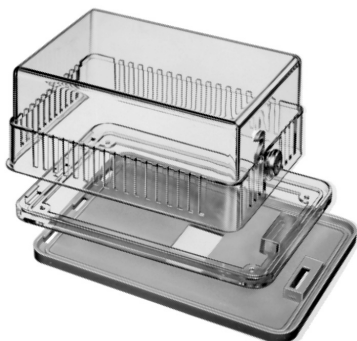
# THERMOSTAT GUARDS

White  
Rodgers

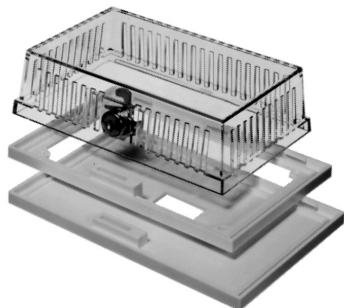
**PLASTIC**



**F29-0144**



**F29-0198**



**F29-0231**

## THERMOSTAT GUARDS – PLASTIC

These Durable Thermostat Guards are Designed for use in Offices, Churches, Restaurants and Other Public Areas to Prevent Adjustment of the Temperature by Unauthorized Personnel

### FEATURES

- F29-0198 will accept ALL White-Rodgers thermostat types.
- Each model furnished with one key and can be mounted vertically or horizontally.
- Clear plastic models for applications that need the thermostat visible.
- Opaque plastic models for applications that require the thermostat be kept hidden from view.
- Each model furnished with a ring and/or solid wall mounting plate.

### PARTS AND ACCESSORIES

- F145-0999 – Replacement key (1)
- F145-1000 – Replacement lock and key

Model Number	Description	Horizontal (Ring) Inside Dimensions			Horizontal (Solid) Inside Dimensions			BEKO Number
		Length	Height	Depth	Length	Height	Depth	
F29-0143	Clear Plastic	6 <sup>3</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>4</sub> "	6 <sup>3</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>2</sub> "	3"	BTG-RK
F29-0198	Clear Plastic	8 <sup>1</sup> / <sub>8</sub> "	4 <sup>5</sup> / <sub>8</sub> "	3 <sup>5</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>4</sub> "	5 <sup>3</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>2</sub> "	BTG-UK2
F29-0225	Clear Plastic	Mounting Plate, No Ring			3 <sup>7</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub> "	BTG-EK
F29-0227	Clear Plastic	5 <sup>1</sup> / <sub>4</sub> "	4 <sup>5</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>4</sub> "	5 <sup>1</sup> / <sub>4</sub> "	4 <sup>5</sup> / <sub>8</sub> "	3"	BTG-K
F29-0231	Clear Plastic	7 <sup>1</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>4</sub> "	7 <sup>5</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>4</sub> "	2 <sup>1</sup> / <sub>8</sub> "	TG-DK
F29-0232	Opaque Off-White Plastic	7 <sup>1</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>4</sub> "	7 <sup>5</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>4</sub> "	2 <sup>1</sup> / <sub>8</sub> "	TG-DO
F29-0277 ①	Clear Plastic	7 <sup>1</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>4</sub> "	2 <sup>1</sup> / <sub>4</sub> "	7 <sup>5</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>4</sub> "	2 <sup>1</sup> / <sub>8</sub> "	NA

① Access hole for temporary temperature override on horizontal 1F70, 1F80, 1F90 series thermostats (except Blue)

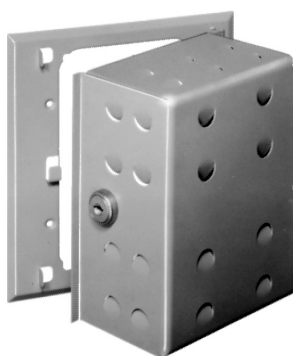


### TECHNICAL HELP

For a list of thermostat guard choices by thermostat model number . . See chart below

Thermostat Guard Selection		Plastic													
		Clear Plastic		Clear Plastic		Clear Plastic	Clear Plastic		Clear Plastic		Opaque Off-White		Clear Plastic		
Thermostat Guard Model Number		F29-0143		F29-0198		F29-0225	F29-0227		F29-0231		F29-0232		F29-0277*		
Base Style		Ring	Solid	Ring	Solid	Solid	Ring	Solid	Ring	Solid	Ring	Solid	Ring	Solid	
MECHANICAL	1C20 Series	√	√	√	√	√	√	√	√	√	√	√	NO	NO	
	1C30 Series	√	√	√	√	NO	√	√	√	√	√	√	NO	NO	
	1D30/36/56 Series	√	√	√	√	NO	√	√	√	√	√	√	NO	NO	
	1E30/31/35/56 Series	√	√	√	√	NO	√	√	√	√	√	√	NO	NO	
	1F30 Series	√	√	√	√	NO	√	√	√	√	√	√	NO	NO	
	1F51/56/57 Series	√	√	√	√	NO	√	√	√	√	√	√	NO	NO	
	1F58-58/1F58-72	√	√	√	√	NO	NO	NO	√	√	√	√	NO	NO	
	1F58-77	√	√	√	√	NO	√	√	√	√	√	√	NO	NO	
DIGITAL	1E78 Series	NO	NO	√	√	NO	√	√	√	√	√	√	NO	NO	
	1F70 Series	NO	NO	√	√	NO	√	√	√	√	√	√	√	√	
	1F80 BLUE Series	√	√	√	√	NO	√	√	√	√	√	√	NO	NO	
	1F80 Series	NO	NO	√	√	NO	NO	NO	√	√	√	√	√	√	
	1F90 BLUE Series	NO	NO	√	√	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	1F90 Series	NO	NO	√	√	NO	NO	NO	√	√	√	√	√	√	

\* With Access Hole for Temporary Override on 70, 80 and 90 Series Thermostats (Except Blue).

**F29-0193****F29-0222**

## THERMOSTAT GUARDS – METAL

These Durable Metal Guards are Designed for Government, Military, Industrial and Educational Applications to Prevent Adjustment of the Temperature by Unauthorized Personnel

### FEATURES

- Model F29-0220 fits ALL White-Rodgers Thermostats.
- Each model furnished with one key and can be mounted vertically or horizontally.
- Tamper-resistant design. 18 gauge cover, 22 gauge frame.
- Beige enamel finish over heavy-duty steel enclosure.
- Models available in a ring or solid base.

### PARTS AND ACCESSORIES

- F145-0999 – Replacement key (1)
- F145-1000 – Replacement lock and key

Model Number	Description	Horizontal – Inside Dimensions			Comments	BEKO Number
		Length	Height	Depth		
F29-0192	Solid base	6 <sup>1</sup> / <sub>4</sub> "	4 <sup>3</sup> / <sub>4</sub> "	3"	Hinged cover	BTG-54VL
F29-0193	Ring base	6"	3 <sup>13</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>8</sub> "	Hinged cover	BTG-54VLW
F29-0220	Solid base	7 <sup>1</sup> / <sub>8</sub> "	4 <sup>5</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>4</sub> "	–	BTG-UM
F29-0222	Ring base	6 <sup>5</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>2</sub> "	3 <sup>3</sup> / <sub>8</sub> "	–	BTG-UWM
F29-0182	Ring base	6"	3 <sup>13</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>8</sub> "	Hinged cover	BTG-54VLW
F29-0183	Solid base	6 <sup>1</sup> / <sub>4</sub> "	4 <sup>3</sup> / <sub>4</sub> "	3"	Hinged cover	BTG-54VL
F29-0190	Ring base	6 <sup>5</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>2</sub> "	3 <sup>3</sup> / <sub>8</sub> "	–	BTG-UWM



### TECHNICAL HELP

For a list of thermostat guard choices by thermostat model number . . See chart below

Thermostat Guard Selection		Metal			
		Hinged Cover		No Hinge	
		F29-0183/ F29-0192	F29-0182/ F29-0193	F29-0220	F29-0190/ F29-0222
Base Style		Solid	Ring	Solid	Ring
MECHANICAL	1C20 Series	√	√	√	√
	1C30 Series	√	√	√	√
	1D30/36/56 Series	√	√	√	√
	1E30/31/35/56 Series	√	√	√	√
	1F30 Series	√	√	√	√
	1F51/56/57 Series	√	√	√	√
	1F58-58/1F58-72	√	√	√	√
	1F58-77	√	√	√	√
	1E78 Series	√	√	√	√
DIGITAL	1F70 Series	√	√	√	√
	1F80 BLUE Series	√	√	√	√
	1F80 Series	NO	√	√	√
	1F90 BLUE Series	NO	NO	√	√
	1F90 Series	NO	√	√	√

# LINE VOLTAGE THERMOSTATS QUICK SELECTION GUIDE

White  
Rodgers

**INSTANT  
EXPERT**

	Range Max.	Range Min.	Differential Max.	Differential Min.	Model	Element	Capillary Length	Switch Action	Page Number
<b>HEATING</b>	80°F	48°F	3°F	3°F	<b>176-6</b>	Thermostat		Open on Rise	34
	80°F	40°F	2°F	2°F	<b>1G65-641</b>	Thermostat Snap Action		Open on Rise	31
	80°F	40°F	2°F	2°F	<b>1G66-641</b>	Thermostat Snap Action		Open on Rise	31
	85°F	40°F	1°F	1°F	<b>1A65-641</b>	Hydraulic Knob		Open on Rise	31
	85°F	40°F	1°F	1°F	<b>1A65W-641</b>	Hydraulic Knob		Open on Rise	31
	85°F	40°F	1°F	1°F	<b>1A66-641</b>	Hydraulic Knob		Open on Rise	31
	85°F	40°F	1°F	1°F	<b>1A66W-641</b>	Hydraulic Knob		Open on Rise	31
	85°F	55°F	2°F	2°F	<b>152-9</b>	Thermostat		Open on Rise	36
	90°F	20°F	20°F	3°F	<b>2A37-1</b>	Thermostat		Open on Rise	35
	90°F	40°F	3°F	3°F	<b>2A20-2</b>	Self Contained		Open on Rise	38
	95°F	55°F	2°F	2°F	<b>152-10</b>	Thermostat		Open on Rise	34
	95°F	35°F	1.5°F	1.5°F	<b>261-36</b>	Remote Bulb	24"	Open on Rise	37
	100°F	35°F	1.5°F	1.5°F	<b>265-1</b>	Remote Bulb	10 feet	Open on Rise	33
	103°F	55°F	1.5°F	1.5°F	<b>261-3</b>	Remote Bulb	6"	Open on Rise	37
	103°F	55°F	1.5°F	1.5°F	<b>262-2</b>	Remote Bulb	6"	Open on Rise	37
	105°F	55°F	3°F	3°F	<b>2B61-1</b>	Remote Bulb	15"	Open on Rise	37
	500°F	100°F	15°F	15°F	<b>1002-6</b>	Remote Bulb		Open on Rise	38
<b>COOLING</b>	90°F	-30°F	20°F	3°F	<b>201-20</b>	Self Contained		Close on Rise	35
	90°F	20°F	20°F	3°F	<b>201-8</b>	Self Contained		Close on Rise	35
<b>HEAT &amp; COOL</b>	90°F	36°F	1.5°F	1.5°F	<b>1A10-651</b>	Hydraulic Knob		SPDT	32
	90°F	36°F	1.5°F	1.5°F	<b>1A11-2</b>	Hydraulic Knob		SPDT	33
	90°F	36°F	1.5°F	1.5°F	<b>1A16-51</b>	Hydraulic Knob		SPDT	32
	95°F	55°F	3°F	3°F	<b>179-1</b>	Thermostat		SPDT	36

U.S. Models only

**1A65-641****LINE VOLTAGE WALL THERMOSTATS**

Electric Heat Thermostats used for Controlling Baseboards, Cable Heat, Glass Panels, etc.

**FEATURES**

- 1A66 types are a double-pole disconnect model with "OFF" position which mechanically breaks both sides of line.
- Classic White or Beige color.

**SPECIFICATIONS**

Dimensions . . . . . 4 1/2" H x 2 3/4" W x 1 1/4" D

Agency . . . . . U.L. listed and C.S.A. certified

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

- F61-2152 – Wallplate (6 5/8" x 4 5/8")
- F75-0176 – for locking or limiting temperatures at 66°, 69°, 72° or 75°F  
Temperature limit can also be set at 60° or 63°F
- Thermostat guards – see pages 28-29

Model Number	Range	Differential	Switch Action	Resistive (Non-Inductive)
1A65-641	40 to 85°F (4 to 29°C)	1.0°F	Open on Rise	22.0A, 120 VAC (2500W)
1A65W-641 ①				22.0A, 240 VAC (5000W) 18.0A, 277 VAC (5000W)
1A66-641	40 to 85°F (4 to 29°C)	1.0°F	Open on Rise	22.0A, 240 VAC (5000W)
1A66W-641 ①				18.0A, 277 VAC (5000W)
1A65-610 ②	40 to 85°F (4 to 29°C)	1.0°F	Open on Rise	22.0A, 120 VAC (2500W)
1A65-633				22.0A, 240 VAC (5000W)
1A65W-633 ①				18.0A, 277 VAC (5000W)
1A66-633	40 to 85°F (4 to 29°C)	1.0°F	Open on Rise	22.0A, 240 VAC (5000W)
1A66W-633 ①				18.0A, 277 VAC (5000W)

① W in model number denotes Classic White Color

② Model 1A65-610 features tamperproof setting

REPLACES HONEYWELL T498A/B SERIES

**1G66-641****LINE VOLTAGE BIMETAL WALL THERMOSTATS**

Electric Heat Thermostats used for Controlling Baseboards, Cable Heat, Glass Panels, etc.

**FEATURES**

- 1G66 types are a double-pole disconnect model with "OFF" position which mechanically breaks both sides of line.
- Classic white.

**SPECIFICATIONS**

Dimensions . . . . . 4 13/16" H x 3 5/16" W x 1 7/16" D

Agency . . . . . U.L. listed and C.S.A. certified

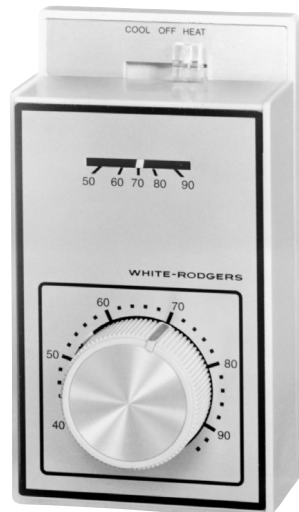
**PARTS AND ACCESSORIES** See end of this section for additional parts and accessories

- F61-2685 – Wallplate (4 3/16" x 5 11/16")
- Thermostat guards – see pages 28-29

Model Number	Range	Differential	Switch Action	Resistive (Non-Inductive)
1G65-641	40 to 80°F (4 to 26°C)	2.0°F	Open on Rise	22.0A, 120 VAC (2500W) 22.0A, 240 VAC (5000W) 18.0A, 277 VAC (5000W)
1G66-641	40 to 80°F (4 to 26°C)	2.0°F	Open on Rise	22.0A, 240 VAC (5000W) 18.0A, 277 VAC (5000W)
1G65-633	40 to 80°F (4 to 26°C)	1.0°C	Open on Rise	22.0A, 120 VAC (2500W) 22.0A, 240 VAC (5000W) 18.0A, 277 VAC (5000W)
1G66-633	40 to 80°F (4 to 26°C)	1.0°C	Open on Rise	22.0A, 240 VAC (5000W) 18.0A, 277 VAC (5000W)

# LINE VOLTAGE THERMOSTATS

White  
Rodgers



**1A10-651**  
with **S29-21** subbase

## 1A10-651 LIGHT DUTY AND 1A16-51 HEAVY DUTY LINE VOLTAGE THERMOSTATS

For Direct Control of Fan Coils, Fans, Motor Starters, Circulator Motors, Contactors, Valves for Heating, Cooling & SPDT Applications

### FEATURES

- Two dial stops for setting a maximum or minimum temperature. Minimum between 66 to 87°F. Maximum between 60 to 81°F.
- Thermostat mounts on 2" x 4" electrical box.
- Includes set point locking feature at 66°, 69°, 72°, 75°, 78° or 81°F
- Vertical or horizontal mounting.
- Optional heating and cooling subbase S29-21 available.
- Beige color.
- Does not contain mercury.

### SPECIFICATIONS

Dimensions without subbase, knob & case . . . 4<sup>1</sup>/<sub>2</sub>" H x 2<sup>7</sup>/<sub>8</sub>" W x 1<sup>3</sup>/<sub>4</sub>" D (Vertical)  
 Dimensions with subbase, knob & case . . . . . 5<sup>1</sup>/<sub>8</sub>" H x 2<sup>7</sup>/<sub>8</sub>" W x 2<sup>1</sup>/<sub>8</sub>" D (Vertical)  
 Agency . . . . . U.L. listed and C.S.A. certified

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

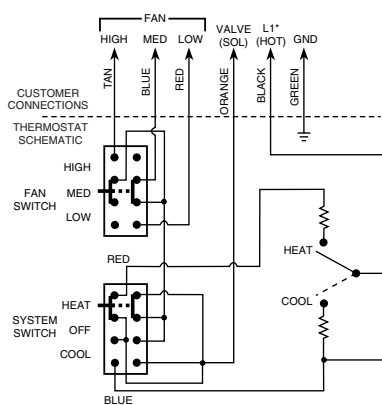
- F61-2152 – Wallplate (4<sup>5</sup>/<sub>8</sub>" x 6<sup>5</sup>/<sub>8</sub>" ) only
- F20-1852 – Vertical and horizontal thermostat dials without thermometer
- F20-2386 – Thermostat and subbase dials for horizontal mounting
- Thermostat guards – see pages 28-29

Model Number	Range	Differential	Switch Action	A.C. Electrical Ratings						Pilot Duty
				Voltage	Heat			Cool		
					Full Load	Locked Rotor	Resistive (Non-inductive)	Full Load	Locked Rotor	
1A10-651	36 to 90°F (2 to 32°C)	1.5°F	SPDT	120	8.0A	48.0A	8.0A	8.0A	48.0A	125 VA
				240/277	4.0A	24.0A	8.0A	4.0A	24.0A	125 VA
1A16-51	36 to 90°F (2 to 32°C)	1.5°F	SPDT	120	16.0A	96.0A	16.0A	8.0A	48.0A	125 VA
				240/277	8.0A	48.0A	16.0A	4.0A	24.0A	125 VA

### SUBBASES FOR 1A10-651 AND 1A16-51

Model Number	System Switching	Thermostat Used	Thermostat Style
S29-21	Cool – OFF – Heat	1A10-651, 1A16-51	Vertical
S29-22	OFF – Heat	1A10-651, 1A16-51	Vertical



**1A11-2**

\*L1 is Power In  
Note: Above FAN and SYSTEM switches shown in MED and HEAT positions respectively.

**1A11-2**  
5-wire with ground, for single valve,  
manual heat/cool changeover

**1A11-2 LIGHT DUTY FAN COIL THERMOSTAT**

For Direct Control of Line Voltage Valves and/or Blower Motors on Fan Coil Units Featuring Manual Changeover From Heat to Cool and a 3-Speed Fan Switch, Subbase Included

**FEATURES**

- Mounts to a standard vertical outlet box or on a two-gang outlet box. May also be mounted on a 4" x 4" junction box with an adapter (not provided).
- Wiring color coded for ease of installation.
- 3-speed manual fan switch: High – Medium – Low.
- System Switch: Heat – OFF – Cool. "OFF" breaks both valve and fan circuits.
- Beige color.

**SPECIFICATIONS**

Dimensions . . . . . 4 1/2" H x 4 1/2" W x 2 1/4" D

Agency . . . . . U.L. listed and C.S.A. certified

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

- F20-1852 – Vertical faceplate for no-thermometer look
- Thermostat guards – see pages 28-29

- Thermostat cycles both fan and valve
- Thermostat cycles fan only (if valve is not used tape orange lead)
- System "OFF" breaks both valve and fan circuits
- Thermostat cycles valve only with continuous fan (interchange valve and L1 leads)

Model Number	Range	Differential	Switch Action	Contact Ratings						Pilot Duty
				Motor Ratings (inductive) Full Load			Motor Ratings (inductive) Locked Rotor			120/240/277 VAC
				120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	277 VAC	277 VAC
1A11-2	36 to 90°F (2 to 32°C)	1.5°F	SPDT	5.5A	2.75A	2.3A	33.0A	16.5A	13.8A	120 VA

**265-1****ELECTRIC HEAT REMOTE BULB THERMOSTAT**

Provides Even Temperature Control for Electrically Heated Pig Brooders, Cattle Watering Tanks and Similar Applications

**FEATURES**

- Small bulb size – Element can pass through a bend in 1/2" conduit with a radius of 7" or greater.
- 10' flexible capillary allows sensing bulb to be positioned for most efficient response regardless of switch location.
- Slow make and break switch enclosed in heavy metal case.
- Resistive (non-inductive) loads only (heaters).

**SPECIFICATIONS**

Dimensions . . . . . 5 1/4" H x 2 5/16" W x 2 1/2" D

Finish . . . . . Grey color

Switch Action . . . . . Open on rise

Agency . . . . . U.L. listed

Model Number	Range	Differential	Capillary Length	Bulb Size	Resistive (Non-Inductive)		
					120 VAC	240 VAC	277 VAC
265-1	35 to 100°F (2 to 38°C)	1.5°F	10 ft.	2 29/32" x 3/8"	22.0A	22.0A	18.0A

# LINE VOLTAGE THERMOSTATS

White  
Rodgers



**152-10**

## LINE VOLTAGE, LOCKED CASE, CONCEALED DIAL THERMOSTAT FOR HEATING

Provides Unequaled Performance for Heavy Duty Line Voltage Application and Provides Maximum Protection Against Unauthorized Adjustment

### FEATURES

- Concealed dial and tamperproof case prevent unauthorized adjustment.
- Tamperproof case with locking screw and special key (included).
- Heavy gauge steel case – Mounts on vertical 2" x 4" box or flush to wall.
- Hydraulic action element – Unaffected by motion – No leveling required.
- Dustproof case.

### SPECIFICATIONS

Dimensions . . . . . 6"H x 2<sup>3</sup>/<sub>4</sub>" W x 2<sup>1</sup>/<sub>2</sub>" D

Finish . . . . . Grey color

### PARTS AND ACCESSORIES

- Thermostat guards – see pages 28-29

Model Number	Range	Differential	Action	Full Electrical Rating	Motor Rating (Full Load)		Resistive (Non-Inductive)		
					120 VAC	240 VAC	120 VAC	240 VAC	277 VAC
152-10	55 to 95°F (13 to 35°C)	Fixed 2°F (1.0°C)	Open on Rise	FG See page 416	14.0A	7.0A	25.0A	22.0A	18.0A



**176-6**

## LINE VOLTAGE, LOCKED CASE AND LIMITED OR LOCKED SETTING THERMOSTAT FOR HEATING

For Installations where Heavy Duty Thermostats with Tamperproof Features are Required. Ideal for Control of Infra-Red Heater Installations

### FEATURES

- "Limited maximum setting" – internally adjustable stop prevents movement above desired setting.
- Tamperproof case with locking screw and special key (included).
- Heavy gauge steel case – Mounts on vertical 2" x 4" junction box or flush to wall.
- Hydraulic action element – Unaffected by motion – No leveling required.
- "ON" position can be used to operate fan during summer.  
(Contact will open and stop fan if ambient reaches 120°F/49°C).

### SPECIFICATIONS

Dimensions . . . . . 6"H x 2<sup>3</sup>/<sub>4</sub>" W x 2<sup>1</sup>/<sub>2</sub>" D

Finish . . . . . Grey color

### PARTS AND ACCESSORIES

- Thermostat guards – see pages 28-29

Model Number	Range	Differential	Action	Full Electrical Rating	Motor Rating (Full Load)		Resistive (Non-Inductive)	
					120 VAC	240 VAC	120 VAC	240 VAC
176-6	40 to 80°F (4 to 27°C)	Fixed 3°F (1.0°C)	Open on Rise	FG See page 416	14.0A	7.0A	25.0A	22.0A

**201-8**

## HEAVY DUTY SPACE THERMOSTATS FOR HEATING AND COOLING

Designed for use in Garages, Factories, Warehouses and Similar Commercial and Industrial Installations

### FEATURES

- Dust, moisture and vermin resistant heavy metal case.
- No leveling required – Mounts in any position.
- Quick response to temperature changes.
- Nickel plated element.
- Extra rugged switch mechanism.

### SPECIFICATIONS

Dimensions . . . . .  $5\frac{3}{8}$ " H +  $2\frac{1}{2}$ " coil x  $2\frac{5}{16}$ " W x  $2\frac{9}{16}$ " D  
 Finish . . . . . Grey color  
 Agency . . . . . U.L. listed and C.S.A. certified

Model Number	Range	Differential	Switch Action	Full Electrical Rating	Motor Rating (Full Load)		Valves and Relays		Resistive	
					120 VAC	240 VAC	120 VAC	240 VAC	120 VAC	240 VAC
201-8	20 to 90°F (-7 to +32°C)	Adj. 3 to 20°F (2 to 11°C)	Close on Rise	FGH See page 416	16.0A	8.0A	5.6A	2.8A	25.0A	22.0A
201-20	-30 to +90°F (-34 to +32°C)	Adj. 4 to 20°F (2 to 11°C)	Close on Rise	FGH See page 416	16.0A	8.0A	5.6A	2.8A	25.0A	22.0A
2A37-1	20 to 90°F (-7 to +32°C)	Adj. 3 to 20°F (2 to 11°C)	Open on Rise	FG See page 416	14.0A	7.0A	5.6A	2.8A	25.0A	22.0A

**259-6**

## HEAVY DUTY SPACE THERMOSTATS FOR HEATING AND COOLING

Designed for use in Garages, Factories, Warehouses and Similar Commercial and Industrial Installations

### FEATURES

- Dust, moisture and vermin resistant heavy metal case.
- No leveling required – Mounts in any position.
- Quick response to temperature changes.
- Nickel plated element.
- Extra rugged switch mechanism.

### SPECIFICATIONS

Finish . . . . . Grey color  
 Agency . . . . . U.L. listed and C.S.A. certified

Model Number	Range	Differential	Switch Action	Full Electrical Rating	Motor Rating (Full Load)		Valves and Relays		Resistive	
					120 VAC	240 VAC	120 VAC	240 VAC	120 VAC	240 VAC
259-6 ①	Low Speed: 35 to 110°F (2 to +43°C)	Fixed 3°F (1.5°C)	Close on Rise	HH See page 416	7.4A	3.7A	2.9A	1.4A	7.4A	3.7A
	High Speed: 35 to 110°F (2 to +43°C)	Fixed 4°F (2.2°C)	SPDT	HH See page 416	7.4A	3.7A	2.9A	1.4A	7.4A	3.7A

① 259-6 has plastic coated copper element

# LINE VOLTAGE THERMOSTATS

White  
Rodgers



**179-1**

## LINE VOLTAGE THERMOSTAT FOR COOLING

Control Suitable for Fans or Water Solenoids on Heating/Cooling Convectors or Any Similar Application that Requires a Heavy Duty Room Thermostat with Single Pole, Double Throw (SPDT) Switch Action

### FEATURES

- Can handle many cooling installations without use of relay or motor starter.
- Heavy gauge steel case – Mounts on vertical 2" x 4" box or flush to wall.
- Hydraulic action element – Unaffected by motion – No leveling required.
- Dustproof case.

### SPECIFICATIONS

Dimensions . . . . . 6" H x 2<sup>3</sup>/<sub>4</sub>" W x 2<sup>1</sup>/<sub>2</sub>" D  
 Finish . . . . . Grey color  
 Agency . . . . . U.L. listed and C.S.A. certified

### PARTS AND ACCESSORIES

- Thermostat guards – see pages 28-29

Model Number	Range	Differential	Action	Full Electrical Rating	Motor Rating (Full Load)	
					120 VAC	240 VAC
179-1	55 to 95°F (13 to 35°C)	Fixed 3.0°F (1.6°C)	SPDT	SPDT See page 416	7.4A	3.7



**152-9**

## LINE VOLTAGE THERMOSTAT FOR HEATING

For Control of Most Line Voltage Heating Applications without use of Relays or Motor Starters

### FEATURES

- "Summer" dial position (152 model) that closes contacts to operate unit heater fan.
- Heavy gauge steel case – Mounts on vertical 2" x 4" box or flush to wall.
- Hydraulic action element – Unaffected by motion – No leveling required.
- Dustproof case.

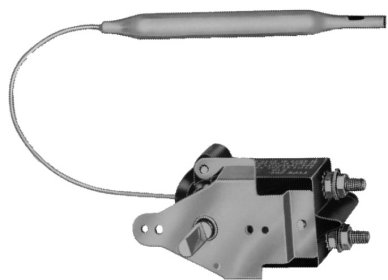
### SPECIFICATIONS

Dimensions . . . . . 6" H x 2<sup>3</sup>/<sub>4</sub>" W x 2<sup>1</sup>/<sub>2</sub>" D  
 Finish . . . . . Grey color  
 Agency . . . . . U.L. listed and C.S.A. certified

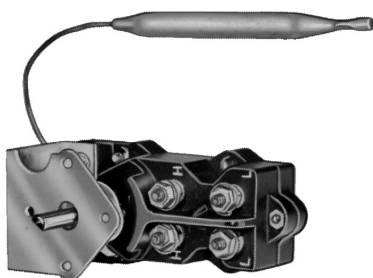
### PARTS AND ACCESSORIES

- Thermostat guards – see pages 28-29

Model Number	Range	Differential	Action	Full Electrical Rating	Motor Rating (Full Load)		Resistive (Non-Inductive)		
					120 VAC	240 VAC	120 VAC	240 VAC	277 VAC
152-9	55 to 85°F (13 to 29°C)	Fixed 2°F (1.0°C)	Open on Rise	FG See page 416	14.0A	7.0A	25.0A	22.0A	18.0A
179-1	55 to 95°F (13 to 35°C)	Fixed 3.0°F (1.6°C)	SPDT	SPDT See page 416	7.4A	3.7A	24.0A	20.0A	N/A



**261-3**  
**Single Pole**



**262-2**  
**Two-Pole Disconnect**

## ELECTRIC HEAT REMOTE BULB THERMOSTATS

Specially Designed for use on Portable Heaters, Baseboard Convector and a Wide Variety of Uses in the Commercial Scientific and Agricultural Fields

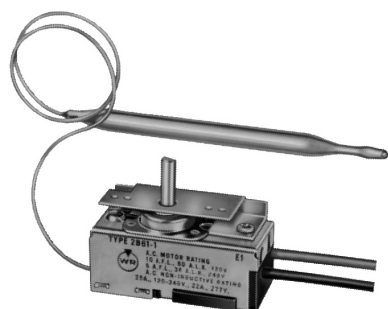
### FEATURES

- Compact size.
- Model 261 has shaft position that breaks one side of the line.
- Model 262 has shaft position that breaks both sides of the line.
- Silent switch – No chatter or arc-flash.
- Shaft adjustable through range in 240° of arc (295° of arc including “OFF” position).

### SPECIFICATIONS

Ambient Temperature Rating	150°F (66°C)
Dimensions Model 261	2 <sup>15</sup> / <sub>16</sub> " H x 1 <sup>3</sup> / <sub>4</sub> " W x 1 <sup>29</sup> / <sub>32</sub> " D
Dimensions Model 262	3 <sup>11</sup> / <sub>16</sub> " H x 1 <sup>3</sup> / <sub>4</sub> " W x 2 <sup>9</sup> / <sub>16</sub> " D
Shaft extension beyond bracket Model 261	2 <sup>5</sup> / <sub>32</sub> "
Shaft extension beyond bracket Model 262	1 <sup>3</sup> / <sub>16</sub> "
Bulb size Model 261-3	3 <sup>7</sup> / <sub>8</sub> " x 3 <sup>3</sup> / <sub>8</sub> "
Bulb size Model 261-36	3 <sup>3</sup> / <sub>8</sub> " x 3 <sup>3</sup> / <sub>8</sub> "
Bulb size Model 262-2	3 <sup>7</sup> / <sub>8</sub> " x 3 <sup>3</sup> / <sub>8</sub> "

Model Number	Range	Differential	Switch Action	Capillary Length	Resistive (Non-Inductive)
261-3	55 to 103°F (13 to 39°C)	1.5°F	Open on Rise	6"	22.0A, 120 VAC (2500W)
261-36	35 to 95°F (2 to 35°C)	1.5°F	Open on Rise	24"	22.0A, 240 VAC (5000W) 18.0A, 277 VAC (5000W)
262-2	55 to 103°F (13 to 39°C)	1.5°F	Open on Rise	6"	22.0A, 240 VAC (5000W) 18.0A, 277 VAC (5000W)



**2B61-1**  
**Single Pole**

## ELECTRIC HEAT REMOTE BULB THERMOSTAT

Snap-Action Thermostat with Color-Coded Leads have Both Inductive and Non-Inductive Ratings for Increased Flexibility

### FEATURES

- Mounting interchangeable with most competitive models.
- Color-coded leads.
- Shaft adjustable through range in 240° of arc (295° of arc including “OFF” position).
- Liquid charged bulb quickly responds to temperature changes.
- Precision snap switch.

### SPECIFICATIONS

Ambient Temperature Rating	150°F (66°C)
Dimensions	2 <sup>11</sup> / <sub>16</sub> " H x 1 <sup>1</sup> / <sub>4</sub> " W x 1 <sup>7</sup> / <sub>16</sub> " D
Bulb size	5 <sup>1</sup> / <sub>2</sub> " x 3 <sup>3</sup> / <sub>8</sub> "
Lead lengths	18"

Model Number	Range	Differential	Switch Action	Capillary Length	AC Electrical Rating	
					Resistive (Non-Inductive)	Motor (Full Load)
2B61-1	55 to 105°F (13 to 40°C)	3.0°F (1.6°C)	Open on Rise (Snap-Action)	15"	25.0A, 120 V, 240 V 22.0A, 277 V	10.0A, 120 V, 60LRA 6.0A, 240 V, 36LRA

# LINE VOLTAGE THERMOSTATS

White  
Rodgers

# SPECIAL PURPOSE CONTROLS



**1002-6**

## HIGH TEMPERATURE CONTROLS

For Control of High Temperature Applications such as Electrically or Gas Heated Industrial Ovens

### FEATURES

- Long air-sensitive bulb provides accurate temperature control.
- Evenly calibrated dial and adjustment knob to simplify setting.
- U.L. approved adjustable dial stop, factory set at 350°F maximum.
- Steel case with knockouts on top and bottom.
- Hydraulic action element — no leveling required.

### SPECIFICATIONS

Dimensions . . . . .  $5\frac{3}{8}$ " H x  $2\frac{5}{16}$ " W x  $2\frac{9}{16}$ " D +  $\frac{5}{8}$ " Knob  
 Finish . . . . . Grey color  
 Agency . . . . . U.L. listed and C.S.A. certified

Model Number	Range	Differential	Capillary Length	Bulb Size	Switch Action	Full Electrical Rating	Motor Rating Full Load		Resistive (Non-Inductive)	
							120 VAC	240 VAC	120 VAC	240 VAC
1002-6	100 to 500°F (40 to 260°C)	Fixed 15°F (8°C)	6 ft.	$9\frac{7}{8}$ " x $\frac{3}{16}$ "	Open on Rise	B See page 416	7.4A	3.7A	25.0A	20.0A



**2A20-2**

## HAZARDOUS LOCATION HEATING THERMOSTAT

For use in Hazardous Atmospheres (Oil Refineries, Grain Elevators, Munitions Plants, Flour Plants, Hospital Operating Rooms)

### FEATURES

- Evenly calibrated dial and adjustment knob to simplify setting.
- High electrical rating allows operation of most equipment without use of relays or motor starter.
- Hydraulic action element — unaffected by motion — no leveling required.
- $\frac{1}{2}$ " female pipe connection for wiring.

### SPECIFICATIONS

Dimensions . . . . .  $6\frac{1}{8}$ " H x  $5\frac{3}{8}$ " W x 4" D +  $\frac{5}{8}$ " Knob  
 (Add  $2\frac{7}{8}$ " for height of coil)  
 Agency . . . . . U.L. listed (Class I Group D; Class II Groups E, F, & G) and C.S.A. certified

Model Number	Range	Differential	Switch Action	Full Electrical Rating	Bulb Size	Capillary Length	Motor Rating (Full Load)		Resistive (Non-Inductive)	
							120 VAC	240 VAC	120 VAC	240 VAC
2A20-2 ①	40 to 90°F (4 to 32°C)	Fixed 3°F (1.6°C)	Open on Rise	FG See page 416	—	—	14.0A	7.0A	25.0A	20.0A

① 2A20-2 has external knob to adjust setting without removing cover.



**284-50**



## TEMPERATURE CONTROL FOR HEATING WITH WEATHERPROOF ENCLOSURE

### FEATURES

- Weatherproof enclosure.
- Furnished with 6" stripped leads.
- Remote bulb.

### SPECIFICATIONS

Enclosure . . . . . CSA Enc. 3 (NEMA 3)  
Agency . . . . . CSA

Model Number	Range	Differential	Switch Action	Capillary Length	Bulb Size	Motor Rating (Full Load)		Resistive (Non-Inductive)	
						120 VAC	240 VAC	120 VAC	240 VAC
284-50	20 to 122°F (6.7 to 50°C)	Fixed 6.8°F (3.8°C)	Open on Rise	10 ft.	5/16" x 4 3/16"	10.0A	6.0A	25.0A	25.0A



**230-22**

## TEMPERATURE CONTROLS FOR HEATING

Provide Regulation of Duct Temperatures in Conjunction with Air Handling Units or Control of Circulator for Indoor-Outdoor Regulation from a Remote Point

### FEATURES

- Hydraulic action element – Unaffected by vibration.
- Switch case mounts in any position – No leveling required. Includes bulb mounting clip.
- High electrical rating permits operation of most equipment without use of relays or motor starters.
- Dustproof steel case – Dial visible and can be adjusted through cover. Case has knockouts on top and bottom.
- Temperature dial graduated in °F and °C.

### SPECIFICATIONS

Dimensions . . . . . 5 3/4" H x 2 5/16" W x 2 9/16" D  
Finish . . . . . Grey color  
Agency . . . . . U.L. listed and C.S.A. certified


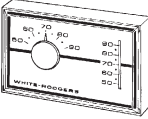
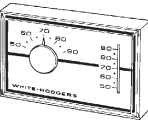

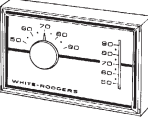





Model Number	Range	Differential	Capillary Length	Bulb Size	Switch Action	Full Electrical Rating	Motor Rating (Full Load)		Resistive (Non-inductive)	
							120 VAC	240 VAC	120 VAC	240 VAC
230-22 ①	20 to 120°F (-6 to +49°C)	Adj. 4 to 30°F (2.2 to 17°C)	8 ft.	6 1/4 x 3/8"	Open on Rise	FG See page 416	14.0A	7.0A	25.0A	22.0A


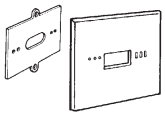
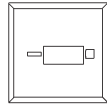
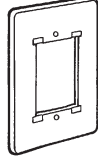
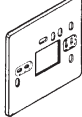
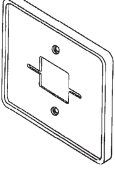

① U.L. approved adjustable dial stop, factory set at 90°F maximum.

# PARTS AND ACCESSORIES

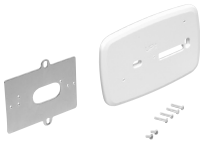


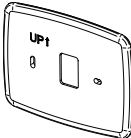
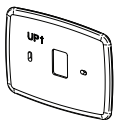
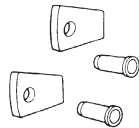

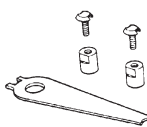
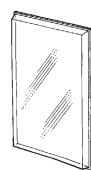
White  
Rodgers

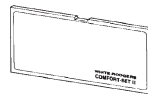

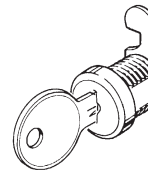



## ROOM THERMOSTATS — 100 SERIES

Item Number	Model Number	Description
	<b>F4-1748</b>	Terminal base for 1D78-140 & 1E78 thermostats.
	<b>F16-5048</b>	Replacement front cover for all horizontal 1D30 through 1D56 and 1F30 through 1F56 series standard low voltage thermostats. Temperature range: 50-90°F. (Not for 1F58 heat pump series.) Beige.
	<b>F16-5482</b>	Replacement front cover for 1F58 Heat Pump Thermostats. (Beige)
	<b>F16-8545</b>	Same as F16-5482 except Classic White.
	<b>F16-5430</b>	Replacement Cover for 176-6.
	<b>F16-6456</b>	Same as F16-5048 except Classic White.
	<b>F16-7715</b>	Cover for 1A65/1A66 (Beige) Thermostat.
	<b>F16-7716</b>	Cover for 1A65W/1A66W (White) Thermostat.
	<b>F16-7978</b>	Cover assembly for 1F80-261.
	<b>F16-8100</b>	Cover assembly for 1F78-144 non-programmable.
	<b>F16-8101</b>	Cover assembly for 1F78-151 programmable.

Item Number	Model Number	Description
	<b>F20-2386</b>	Dial kit for 1A10-651, 1A16-51, S29-21, S29-22. Converts to Horizontal mounting.
	<b>F61-2068</b>	Wallplate for low voltage standard thermostats (5 5/8" H x 5 3/4" W). Beige. Includes adapter for mounting to vertical junction box.
	<b>F61-2301</b>	Same as F61-2068 except white.
	<b>F61-2500</b>	Wallplate for 80 series thermostats (4 5/8" H x 7 5/8" W), except Blue models.
	<b>F61-2072</b>	Wallplate for low voltage standard thermostats (5 5/8" H x 5 3/4" W). Beige, plastic.
	<b>F61-2152</b>	Wallplate for 1A10-651, 1A16-51, 1A65-641, or 1A66-641. (6 5/8" H x 4 5/8" W).
	<b>F61-2251</b>	Wallplate for all beige (obsolete models) 1F90 and 1F70 series thermostats (7 1/4" W x 5 1/2" H), includes adapter plate for mounting to horizontal or vertical junction box.
	<b>F61-2252</b>	Wallplate for all beige (obsolete models) 1F90 and 1F70 series thermostats (7 1/4" W x 5 1/2" H).
	<b>F61-2300</b>	Wallplate for all 1F90 series thermostats (except Blue models), (7 1/4" W x 5 1/2" H), Classic White color, includes adapter plate for mounting to horizontal or vertical junction box.
	<b>F61-2499</b>	Wallplate for 1C20-xxx/1C26-xxx (5 5/8" H x 5" W).
	<b>F61-2500</b>	Wallplate for all 1F80 series thermostats (except Blue models), (7 5/8" W x 4 3/4" H), Classic White color, includes adapter plate for mounting to horizontal or vertical junction box.

**ROOM THERMOSTATS — 100 SERIES (cont.)**

Item Number	Model Number	Description
	<b>F61-2510</b>	Wallplate for all 1F70 series thermostats, 6 1/2" W x 4 1/2" H, Classic White color, Includes adapter plate for mounting to horizontal or vertical junction box.
	<b>F61-2550</b>	Wallplate for all 1F70 series thermostats, 6 1/2" W x 4 1/2" H, Classic White color, does not include adapter plate for mounting to horizontal or vertical junction box.
	<b>F61-2593</b>	Wallplate for 1D70 or 1E70 series thermostats, 4 1/2" W x 6 19/32" H, Classic White color.
	<b>F61-2600</b>	Wallplate for 90 series Blue Touchscreen thermostats, 8 1/8" W x 5 3/8" H, Classic White color, for use with or without horizontal junction box.
	<b>F61-2634</b>	Wallplate for 90 and 80 series Blue thermostats, 6 1/2" W x 5" H, Classic White color, for use with or without horizontal junction box.
	<b>F75-0176</b>	Temperature knob locking or limiting kit for 1A65-641, 1A65W-641, 1A66-641 and 1A66W-641.
	<b>F85-0022</b>	Calibration wrench for thermostats with 7/32" stud.
	<b>F92-0563</b>	Temperature lever locking or temperature limiting kit for low voltage thermostats except 1C70, 1C20 and 1E26 series.
	<b>F106-0090</b>	Clear replacement lens cover for all standard mechanical low voltage thermostats.

Item Number	Model Number	Description
	<b>F145-1082</b>	Replacement door 1F90/1F97 (-51, -60, -71) 1F91-71, 1F92-71, 1F94-71, 1F95-71.
	<b>F145-0999</b>	Replacement key for all thermostat guards, F29 series.
	<b>F145-1000</b>	Replacement lock and key for all thermostat guards, F29 series.
	<b>F145-1189</b>	Replacement door 1F90W, 1F91W, 1F92W, 1F94W, 1F97W.
	<b>F145-1328</b>	90 Series Indoor Remote Sensor. Replaces all previous Indoor Remote Sensors.
	<b>F145-1378</b>	90 Series Outdoor Temperature Sensor, For Models with Outdoor Sensor Option.