THERMOSTATS & CONTROLLERS

RESIDENTIAL AND LIGHT COMMERCIAL THERMOSTATS

1F80 SERIES

DESCRIPTION

The **1F80 Series** thermostats come with a wide variety of options. These versatile thermostats can be used for residential and light commercial applications with both programmable and non-programmable options. There are also choices of displays including the White Rodgers Blue digital display as well as the classic green display. With universal, multi-stage, single stage, and heat pump options the right choice is easy to find in this family of thermostats.





White 🗸 Rodgers..



1F80-0471

1F80-0261

FEATURES

- 2" or 4" Blue[™] or 2" Green digital display
- · Choice of battery, system or dual power models
- · Fossil fuel or electric heat compatible
- Permanent Program retention during power loss on select models
- · Configuration menu allows keypad selection of options
- · Selectable Celsius or Fahrenheit temperature display
- · Air filter change indicator option on select models
- Kevpad lockout and setpoint temperature limit options on select models

1F86-344

0 to 30 VAC, 50/60 Hz or DC 0.05 to Supply Voltage 1.5 Amps (load per terminal)

1.5 Amps maximum load (all terminals combined)

Contact Rating

SPECIFICATIONS

1F80-0261 1.5A max (all terminals combined) 1F80-0471, 1F82-0261 0.05A to 1.5A per terminal

1F83-0471 2.5A max (all terminals combined) 1F86-444 1.0A per terminal, 1.5A max (all

terminals combined)

Accuracy ±1°F **Setpoint Temperature Range**

45° to 90°F (7° to 32°C)

Rated Differential 0.4° to 1.7°F

Standard Systems Gas, oil, electric, heat pump, millivolt

systems, 2- or 3-wire hydronic zone

valve

Thermal Specifications (dependent

on model selected)

Low Voltage **Control Type Operating Ambient Temperature**

32° to 105°F (0° to 40°C)

Operating Humidity Range

90% non-condensing maximum

Programmable Type Periods per day **Schedule Options** 24 hour, 5-1-1, 7 day

Display Type

4" Blue LCD 2" Blue LCD

2" Green LCD (1F86-344 only)

Enclosure Rating NEMA 1, ABS Plastic

Dimensions

1F86-344 6.1"W x 3.8"H x 1.1"D (15.5 x 9.7 x 2.8 cm)

1F80-0471, 1F86-0471 4.4"W x 3.4"H x 1.2"D

(11.2 x 8.6 x 3.04 cm) 1F82-0261, 1F80-0261, 1F80-0224, 1F86-0244

4.8"W x 3.8"H x 1.5"D (12.2 x 9.7 x 3.8 cm)

1F85-0422, 1F83-0471, 1F83-0422, 1F85-0477

5.1"W x 3.9"H x 1.2"D (12.9 x 9.9 x 3.05 cm)

Weight 0.75 lb (0.34 Kg) to 1.01 lb (0.45 Kg)

approximate average

Warranty 5 year

NEW!

THERMOSTATS & CONTROLLERS

RESIDENTIAL AND LIGHT COMMERCIAL THERMOSTATS 1F80 SERIES

WIRING

70°

TERMINAL DESIGNATIONS - Terminal Block Wire Connection

1F80-0224, 1F80-0261,1F82-0261



1F80-0471, 1F86-0471



1F85-0477, 1F85-0422, 1F83-0471, 1F83-0422



1F86-344



TERMINAL DESIGNATION*	DESCRIPTION				
RC	24 volt (hot) for cooling				
RH	24 volt (hot) for heating				
С	24 volt common (optional)				
W/E	Heat mode 1st stage				
W2	Heat mode 2nd stage (no output on single stage)				
Υ	Cool mode 1st stage				
Y2	Cool mode 2nd stage (no output on single stage)				
O/B	O is energized constantly in cool mode; B is energized constantly in heat, off, or emergency mode				
0	Energized in cool mode				
В	Energized in heat or off mode				
L	Diagnostic indicator or system malfunction switch input				
G	Blower fan energized on call for cool (and heat if configured for electric heat)				
6	Power closed connection for SPDT 3-wire zone valve				
* Not all terminals are functional on every thermostat.					

ORDERING INFORMATION

MODEL	STAGES OF HEAT/COOL (H/C) BY SYSTEM			DOWER CURRLY COURSE	PROGRAMMABLE OPTIONS		DIODI AV
	SINGLE STAGE	MULTI-STAGE	HEAT PUMP	POWER SUPPLY SOURCE	PROGRAM DAY OPTIONS	PERIODS PER DAY	DISPLAY
1F80-0224	1H/1C	NA	1H/1C	Battery or Hardwired*	24 Hour	4	2" Backlit Blue LCD
1F80-0261	1H/1C	NA	1H/1C	Battery or Hardwired*	5+1+1	4	2" Backlit Blue LCD
1F82-0261	2H/1C	NA	2H/1C	Battery or Hardwired*	5+1+1	4	2" Backlit Blue LCD
1F86-0244	NA	NA	1H/1C	Battery or Hardwired*	Non-Programmable	0	2" Backlit Blue LCD
1F80-0471	1H/1C	NA	1H/1C	Battery or Hardwired*	5 + 1 +1, 5 + 2, 0	4,0	4" Backlit Blue LCD
1F85-0422	1H/1C	2H/2C	2H/1C	Battery or Hardwired*	5 + 1 + 1, 5 + 2, 0	4,0	4" Backlit Blue LCD
1F85-0477	1H/1C	2H/2C	3H/2C	Battery or Hardwired*	7, 5 + 1 + 1, 5 + 2, 1	4,0	4" Backlit Blue LCD
1F86-0471	1H/1C	NA	1H/1C	Battery or Hardwired*	Non-Programmable	0	4" Backlit Blue LCD
1F83-0422	1H/1C	2H/2C	2H/1C	Battery or Hardwired*	Non-Programmable	0	4" Backlit Blue LCD
1F83-0471	1H/1C	2H/2C	3H/2C	Battery or Hardwired*	Non-Programmable	0	4" Backlit Blue LCD
1F86-344	1H/1C	NA	1H/1C	Battery or Hardwired*	Non-Programmable	0	2" Backlit Classic Green LC

*Hardwired thermostats require a common

RELATED PRODUCTS

ATK63 Thermostat guard (6.9"H x 4.7"W x 1.75"D - inside dim.) Thermostat guard (8.125"H x 4.375"W x 3.375"D - inside dim.) F29-0198

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