



**1F80-51**



**1F86-444**

**1F80 MODELS-DIGITAL SINGLE STAGE THERMOSTATS**

THE 1F80 DIGITAL THERMOSTATS ARE BATTERY POWERED AND COMPATIBLE WITH MOST HEATING AND COOLING SYSTEMS. CONTEMPORARY STYLING AND CLASSIC WHITE COLOR BLEND WITH ANY ROOM DECOR.

**FEATURES**

- Battery powered for maximum compatibility (requires 3 "AA" alkaline batteries — included).
- Low battery indicator — battery life one year plus.
- 1F87-51 has 7 independent programs, one for each day of the week with 4 times and temperatures. The 1F80-51 has a 5 + 2 day program style with 4 times and temperatures for weekdays and weekends.
- The 1F80-24 has one program which repeats daily (4 times and temperatures). The 1F86-444 is non-programmable with no clock function.
- Simultaneous heating and cooling program storage eliminates the need to reprogram each season.
- Time and temperature settings are pre-programmed and easy to change.
- LCD displays setpoint temperature continuously and alternately shows actual time and temperature except 1F86-444.
- Low and high limit temperature protection in case of battery failure.
- Temporary temperature override until next program period except 1F86-444.
- Hold temperature button allows manual program override for an indefinite period without changing programming except 1F86-444.
- B and O terminals.
- Forced air or hydronic heating anticipation. 1F86-444 forced air only.
- Five-minute compressor short cycle protection in cooling.
- Unique temperature display recalibration feature allows user to modify room temperature display to suit individual needs. ( $\pm 4^{\circ}\text{F}$ )

**SPECIFICATIONS**

**Electrical Rating:**

Millivolt to 30 VAC (50/60 Hz) or D.C.  
0.05 to 1.5 Amps (load per terminal)  
1.5 Amps max. total load  
(all terminals combined)

**Rated Differential:**

0.8°F forced air  
2.2°F hydronic except 1F86-444  
1.2°F cooling

**Temperature Range:** 45° to 90°F (7° to 32°C)

**Dimensions:** 4.5" high, 6.75" wide, 1.25" deep  
**Wiring Diagrams:** See page 220.

**APPLICATIONS**

**FOR USE WITH:**

- Single stage heat/cool or heat only systems
- Electric heat, gas or oil fired systems
- Gas systems with intermittent ignition devices (I.I.D.) and/or vent dampers
- Hydronic (hot water or steam) systems except 1F86-444
- Single stage heat pump systems
- Mobile home (D.C.) systems
- Millivolt systems

**DO NOT USE WITH:**

- Multi-stage systems
- Multi-stage heat pump systems
- 3-wire zoned heating systems
- Systems exceeding 30 V
- Single stage (water source) heat pumps

**NON-PROGRAMMABLE (SETPOINT ONLY)**

Type Number	Application	System Switch	Fan Switch
<b>1F86-444</b>	For heating and cooling, electric heat, and single stage heat pumps.	Heat-Off-Cool	On-Auto

**24 HOUR PROGRAMMING (ONE PROGRAM)**

Type Number	Application	System Switch	Fan Switch
<b>1F80-24</b>	For heating and cooling, electric heat, and single stage heat pumps.	Heat-Off-Cool	On-Auto

**5 + 2 DAY PROGRAMMING (TWO PROGRAMS)**

Type Number	Application	System Switch	Fan Switch
<b>1F80-51</b>	For heating and cooling, electric heat, and single stage heat pumps.	Heat-Off-Cool	On-Auto

**7 DAY INDEPENDENT PROGRAMMABLE (SEVEN PROGRAMS)**

Type Number	Application	System Switch	Fan Switch
<b>1F87-51</b>	For heating and cooling, electric heat, and single stage heat pumps.	Heat-Off-Cool	On-Auto

**N** = New product.

**CONTRACTOR TIP:**

Battery powered, requires no 24 VAC neutral wire.

Keep your name and phone number in front of your customers by ordering special labels for 1F80 series thermostats. Request White-Rodgers Literature #WR-3045 for all the details.