

# Classic 80 Series™ Thermostats

*Thermostats that offer proven performance, reliability and installer confidence*



In residential and light commercial applications, value, performance, reliability and installer confidence have made Classic 80 Series the most trusted and best selling digital thermostats with contractors.



#### AVAILABLE FOR CONVENTIONAL AND HEAT PUMP APPLICATIONS

Wide product offering provides the right thermostat for every application.



#### PROGRAMMABLE & NON-PROGRAMMABLE MODELS

Available in 7 Day, 5+1+1, and non-programmable models.



#### PROVEN PERFORMANCE

Over 75 years of experience along with our  $\pm 1^\circ$  temperature accuracy guarantee.

#### HOW DO YOU BENEFIT?



#### Contractor Branding

Get the next service call by placing your company information directly on the thermostat. Customize your 80 Series thermostats at [ProContractorBranding.com](http://ProContractorBranding.com).



#### Training

Free, self-guided training courses available through Education Central or contact your Territory Manager to set up training at your location or at select wholesalers.



#### Support

Customer and technical support is available seven days a week at 888-725-9797. 5 year limited warranty for HVAC professionals.



EMERSON. CONSIDER IT SOLVED.™

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## SPECIFICATIONS

### ELECTRICAL RATING

Battery Power: mV to 30 VAC  
 Hardwire: 20 to 30 VAC  
 NEC Class II, 50/60 Hz

### SETPOINT RANGE

45°F to 99°F (7°C to 37°C)

### ACCESSORIES

Wallplate: F61-2500 (7-5/8" x 4-7/8")  
 Thermostat Guards: F29-0198 /  
 F29-0227 / F29-0231

### DISPLAY TEMPERATURE RANGE

32°F to +99°F (0°C to 37°C)

### RATED DIFFERENTIALS

Conventional:  
 Heat ..... 0.6°F or 1.5°F  
 Cool ..... 1.2°F  
 Heat Pump (Heat & Cool) ..... 0.75°F or 1.2°F

### TERMINAL LOAD

1.0 A per terminal  
 1.5 A per maximum all terminals combined

### OPERATING AMBIENT

32°F to +105°F  
 (0°C to +41°C)

### OPERATING HUMIDITY

90% non-condensing max

### SHIPPING TEMPERATURE

-4°F to +150°F  
 (-20°C to +65°C)

### THERMOSTAT DIMENSIONS

3-7/8"H x 6"W x 1-3/16"D

## TERMINAL DESIGNATIONS

**HEAT PUMP SYSTEMS 2H/1C:** 1F82-261 / 1F89-211



**CONVENTIONAL SYSTEMS 1H/1C:** 1F80-361 / 1F86-344 / 1F87-361



Model	Program Option				Maximum Stages Heat/Cool		Applications			Power Source		Selectable Performance Features			Comfortable and Convenience Features				
	7 Day	5+1+1 Day	Non-Programmable	Program Periods per Day	Conventional	Heat Pump	Gas/Oil/Electric	3 Wire Zone Valve	Millivolt Compatible	Battery	Hardwired (24V)	Auto Changeover	EMR/ Early Start Program	Temperature Setpoint Limits Adjustable Max./Min.	Duel Fuel Control (L)-Logic/(O)-Outdoor Sensor	Filter Change Reminder	Keypad Lockout	Continuous Backlight w/ Common Wire	Permanent Memory
1F80-361		5+1+1		4	1/1	1/1	•	•	•	•			•						•
1F82-261		5+1+1		4		2/1	•			•			•						•
1F86-344			0	0	1/1	1/1	•	•	•	•									•
1F87-361	7			4	1/1	1/1	•	•	•	•			•						•
1F89-211			0	0		2/1	•			•									•



Download the app for product and cross reference information

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