

# 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.



# 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 |                |                                     |                  |
|--------------|----------------|-----------|------------------|-------------------------|--------------------------|-----------|------------------|-------------------|----------------------|--------------|-----------------|---------------------------------|--------------------------|--------------------------------------------------|------------------------------------------------|--------------------------------------|----------------|-------------------------------------|------------------|
| Model number | 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       | •                |                   |                      |              | •               |                                 |                          |                                                  |                                                |                                      |                |                                     | •                |

# The White-Rodgers mobile app:

Download the app  
for product and cross  
reference information



To learn more, visit [copeland.com/white-rodgers](https://copeland.com/white-rodgers)

Customer Service or Technical Help: 888-725-9797  
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