80 Series™ Thermostats

Thermostats that fit every customer.

The 80 Series thermostats are the perfect fit for every application with universal, conventional and heat pump models. The standard footprint makes replacements and upgrades easier than ever without leaving visible marks on the wall from the old thermostat.

EASY INSTALLATION
All models are easy to install & set-up with a built-in level and universal back plate for more opportunities for upgrades in the future.

LARGE, BACKLIT DISPLAY
Modern design with a large, easy-to-read screen with a bright backlit display.

ADVANCED FEATURES
Temperature limits and keypad lockout are standard on every model. Select models feature auto changeover, filter change reminders, dual fuel control and selectable programming.

PROVEN PERFORMANCE
Over 75 years of experience along with our ± 1° 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.

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.

PRO 5 YEAR LIMITED WARRANTY

EMERSON

80 Series™ Thermostats

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: F61-2663 (6-3/4" x 4-1/2")
Thermostat Guard: F29-0198

DISPLAY TEMPERATURE RANGE
32˚F to +99˚F (0˚C to 37˚C)

RATED DIFFERENTIALS (@ 6˚F / HR)

	Fast	Med	Slow
Heat (Conventional Gas/Oil/Elect):	0.5˚F	0.75˚F	1.9˚F
Cool (Central Air):	0.9˚F	1.2˚F	1.7˚F
Heat Pump (Heat and Cool):	0.9˚F	1.2˚F	1.7˚F
Heat Pump (Aux):	0.5˚F	0.75˚F	1.9˚F

TERMINAL LOAD
Staging Models: 1.5 A per terminal
2.5 A per maximum all terminals combined

Single Stage Models: 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
-20˚F to +150˚F
(-29˚C to +65˚C)

THERMOSTAT DIMENSIONS
3-3/4"H x 6"W x1-1/8"D

TERMINAL DESIGNATIONS

UNIVERSAL: 1F85U-42PR /1F85U-42NP /1F85U-22PR /1F85U-22NP

RC RH C W/E W2 Y Y2 O/B/6 G L

HEAT PUMP: 1F83H-21PR / 1F83H-21NP

R C W2 E Y O/B G L

CONVENTIONAL & HEAT PUMP, SINGLE STAGE: 1F83C-11PR / 1F83C-11NP

RC RH C W Y O/B G

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
1F85U-42PR	7	5+1+1	0	4,2,0	2/2	4/2	•	•	•	•	•	•	•	•	L	•	•	•	•
1F85U-42NP			0	0	2/2	4/2	•	•	•	•	•	•		•	L		•	•	•
1F85U-22PR	7	5+1+1	0	4,2,0	2/2	2/1	•	•	•	•	•	•	•	•	L	•	•	•	•
1F85U-22NP			0	0	2/2	2/1	•	•	•	•	•	•		•	L		•	•	•
1F83H-21PR	7	5+1+1	0	4,0		2/1	•			•	•		•	•	L	•	•	•	•
1F83H-21NP			0	0		2/1	•			•	•			•	L		•	•	•
1F83C-11PR	7	5+1+1	0	4,0	1/1	1/1	•		•	•	•		•	•		•	•	•	•
1F83C-11NP			0	0	1/1	1/1	•		•	•	•			•			•	•	•

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