

**1F85U-42PR**

80 Series thermostats

Copeland 80 Series thermostats are the perfect fit for every application.

Features

- Large display, bright backlight, high contrast screen
- Easy to install with built-in level, simple set-up menu and separate subbase
- Selectable programming, choice of 7 Day, 5+1+1 Day or Off is standard on all programmable models, auto changeover on all universal models
- Dual fuel control, no outdoor sensor required, standard on all staging models
- Keypad lockout and adjustable heat/cool temperature limits

Parts and accessories

Description	Model number	Item number
Thermostat Guard Clear Plastic	F29-0198	F29-0198
Locking Thermostat Guard - Metal, Solid Base	F29-0220	F29-0220
Wallplate 6.75"W X 4.5"H	F61-2663	F61-2663

Specifications

Electrical rating hardwire.....	20-30 VAC, NEC Class II 50/60Hz
Electrical rating battery power.....	mV to 30 VAC
Terminal load.....	1.5 Amps per terminal, 2.5 Amps maximum (all terminals combined)
Set-point range	45 to 99°F (7 to 37°C)
Heat differential (conventional / gas / oil / elec).....	Fast 0.5°F, Med. 0.75°, Slow 1.9°F
Cool differential (central air).....	Fast 0.9°F, Med. 1.2°, Slow 1.7°F
Heat pump differential (heat and cool).....	Fast 0.9°F, Med. 1.2°, Slow 1.7°F
Aux. heat differential.....	Fast 0.5°F, Med. 0.75°, Slow 1.9°F
Operating humidity.....	0%-90% RH non-condensing max.
Dimensions.....	5.58"W X 3.75"H X 1.13"D
Storage temperature range.....	-40 to 150°F (-29 to 65°C)

Model number nomenclature - Example: 1F85U-42PR

Series	System type	Dash	Max stages heat/cool	Programmability/special features
1F85	U	—	42	PR
1F83 = Thermostat Series 1F85 = Thermostat Series	U = Universal Thermostat for Single Stage, Multi-Stage Or Heat Pump Systems H = Heat Pump Thermostat for Systems With Or Without Aux. Heat C = Conventional Thermostat (Gas / Oil / Electric) or Single Stage Heat Pump (No Aux.)	Character Separator	42 = 4 Heat / 2 Cool 22 = 2 Heat / 2 Cool 21 = 2 Heat / 1 Cool 11 = 1 Heat / 1 Cool	PR = Programmable NP = Non-Programmable WF = Wi-Fi Thermostat

Universal staging / heat pump thermostats - 80 Series thermostats

Programs		Stages by system			System type	Model number	Item number	Applications							Power source	Selectable performance features							Available connections
Program Options	Periods Per Day Options	Single Stage Heat / Cool	Multi-Stage Heat / Cool	Heat Pump Heat / Cool				Gas / Oil / Electric	3 Wire Zone Valve	Millivolt Compatible	Economizer	Humidity Control	Dual Fuel Heat Pump Control Logic (L) Outdoor Sensor (O)	Remote Sensor Options Indoor (I) Outdoor (O)		Auto Changeover	Programmable Fan (PF) Comfort Circulating Fan (CC)	Filter Change Reminder	Energy Mgt. Recovery / Early Start	Total Keypad Lockout (T) Partial Keypad Lockout (P)	Set-Point Temperature Limits Adjustable Max/Min	Display Size, Backlight with Key Press (K) Continuous Backlight with Common (C)	
7, 5+1+1, NP	4, 2, Ø	1/1	2/2	4/2	Univrsl.	1F85U-42PR	1F85U-42PR	✓	✓	✓	—	—	L	—	B, H	✓	—	✓	✓	T	✓	5.0" K,C	RC, RH, C, W/E, W2, Y, Y2, O/B/6, G, L
7, 5+1+1, NP	4, 2, Ø	1/1	2/2	2/1	Univrsl.	1F85U-22PR	1F85U-22PR	✓	✓	✓	—	—	L	—	B, H	✓	—	✓	✓	T	✓	5.0" K,C	RC, RH, C, W/E, W2, Y, Y2, O/B/6, G, L
7, 5+1+1, NP	4, Ø	—	—	2/1	Heat Pump	1F83H-21PR	1F83H-21PR	✓	—	—	—	—	L	—	B, H	—	—	✓	✓	T	✓	4.5" K,C	R, C, W2, E, Y, O/B, G, L
NP	Ø	1/1	2/2	4/2	Univrsl.	1F85U-42NP	1F85U-42NP	✓	✓	✓	—	—	L	—	B, H	✓	—	—	—	T	✓	5.0" K,C	RC, RH, C, W/E, W2, Y, Y2, O/B/6, G, L
NP	Ø	1/1	2/2	2/1	Univrsl.	1F85U-22NP	1F85U-22NP	✓	✓	✓	—	—	L	—	B, H	✓	—	—	—	T	✓	5.0" K,C	RC, RH, C, W/E, W2, Y, Y2, O/B/6, G, L
NP	Ø	—	—	2/1	Heat Pump	1F83H-21NP	1F83H-21NP	✓	—	—	—	—	L	—	B, H	—	—	—	—	T	✓	4.5" K,C	R, C, W2, E, Y, O/B, G, L
7, 5+1+1, NP	4, Ø	1/1	—	1/1	Single Stage	1F83C-11PR	1F83C-11PR	✓	—	✓	—	—	—	—	B, H	—	—	✓	✓	T	✓	4.5" K,C	RC, RH, C, W, Y, O/B, G
NP	Ø	1/1	—	1/1	Single Stage	1F83C-11NP	1F83C-11NP	✓	—	✓	—	—	—	—	B, H	—	—	—	—	T	✓	4.5" K,C	RC, RH, C, W, Y, O/B, G

¹ Universal thermostats provide the flexibility to control single stage, multi-stage, or heat pump systems.