



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	
	Periods Per Day Options	Single Stage Heat / Cool	Multi-Stage Heat / Cool				Heat Pump Heat / Cool	Universal / Single Stage / Multi-Stage / Heat Pump 1	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)	Battery (B) Hardwire / Common (H) Power Sharing (PS)	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)
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.