

1F95-1291



1F95-1277



F145-1328 Indoor Remote Sensor



F145-1378 Outdoor Remote Sensor





BLUE 12" TOUCHSCREEN - UNIVERSAL AND SINGLE STAGE THERMOSTATS - 12 SQ. IN. DISPLAY

Blue Models Offer the Ultimate in Comfort, Features, Performance and Visibility

FEATURES

- Universal models quickly configure for single stage, multi-stage or heat pump and heat pump dual fuel systems programmable or non-programmable.
- · Humidity control offers humidification/dehumidification.
- · Commercial offers occupied damper or economizer control.
- Staging control for nearly all conventional and heat pump systems.
- Single stage model compatible with all single stage systems low voltage, 750 mV and 3-wire zone systems.
- · Heat Pump dual fuel option eliminates the need for a fossil fuel kit.
- · Automatic changeover option.
- · Program fan options.
- Keypad lockout and setpoint temperature limit options.
- · Indoor remote sensor for averaging option.
- Outdoor remote sensor option. Add to Universal models for outdoor temp reading or, on select models, dual fuel balance point and outdoor thermostat functions.
- Dual power hardwire and/or battery or Tripower hardwire and/or battery with system assist.

SPECIFICATIONS

Electrical Rating:			
Hardwire	. 20-30 VA	C, NEC Cla	ass II 50/60Hz
Battery Power	. mV to 30	VAC, NEC	Class II, 50/60 Hz or DC
Terminal Load			
	2.5 A max	ximum all te	erminals combined
Setpoint Range	. 45 to 99°	F (7 to 37°0	C)
Rated Differentials:		Med.	Slow
Heat (Single Stage/Multi-Stage)	. 0.4°F	0.6°F	1.7°F
Cool (Single Stage/Multi-Stage)	. 0.9°F	1.2°F	1.7°F
Heat Pump	. 0.9°F	1.2°F	1.7°F
Emer. Heat			1.7°F
Operating Ambient	32 to +10)5°F (0 to +	41°C)
Operating Humidity			
Shipping Temperature Range			
Dimension			
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PARTS AND ACCESSORIES See end of thermostats section for additional parts and accessories

- F145-1328 Indoor remote sensor. See page 33
- F145-1378 Outdoor remote sensor. See page 33
- F61-2600 Wallplate 81/8"W x 53/8"H
- F61-2634 Waliplate 61/2"W x 5"H (or order F61-2648 6 pack of F61-2634)
- F29-0198 Locking Thermostat Guard Clear Plastic
- F29-0220 Locking Thermostat Guard Metal, Solid Base
- Additional Thermostat Guards see pages 34–35 for quick selection options



F145-1328 Indoor Remote Sensor

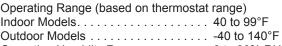
FEATURES

Digital signal output provides superior temperature control, even over long wire runs.

WIRED REMOTE SENSORS FOR 24V THERMOSTATS Indoor and Outdoor Sensors for Emerson Blue Digital Thermostats

- No temperature variance caused by wire resistance.
- Perfect for securing the thermostat in one area or room while sensing temperature in the conditioned space.

SPECIFICATIONS



Operating Humidity Range 0 to 90% RH (non-condensing)

Maximum Distance from Thermostat . . 300'



Remote Sensor Wiring / Troubleshooting See page 167–170



F145-1378 Outdoor Remote Sensor

INDOOR SENSOR



Model Number	Color	Dimensions	Application
F145-1328	Classic White	2 ¹ /8" x 3 ¹ /2" x ³ /4"	Compatible with all Emerson Emerson / White-Rodgers Thermostats with Indoor Remote Sensor

OUTDOOR SENSOR

Model Number	Color	Dimensions	Application
F145-1378	Classic White	2 ¹ /8" x 3 ¹ /2" x ³ /4"	Compatible with all Emerson Emerson / White-Rodgers Thermostats with Outdoor Remote Sensing. 12 ft. sensor lead

CONNECTION CROSS REFERENCE - THERMOSTATS & SENSORS

Old Terminal (Thermostat or Remote)	New Terminal (Thermostat or Remote)
S1	+
S2	S
S3	-

CONTRACTOR TIP: REMOTE SENSOR TROUBLESHOOTING, WIRING AND AVERAGING INFORMATION IS ON PAGES 167–170.

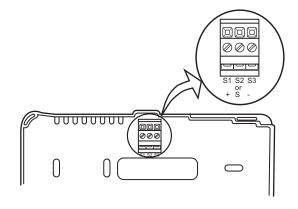
REMOTE TERMINAL DESIGNATIONS

Model Number	Terminal Designation Cross Reference		
F145-1328 , F145-1378	+	S	_
	Sensor Positive	Sensor Return Signal	Sensor Negative

THERMOSTAT ACCESSORIES

Item Number	Model Number	Description
rates CC	F16-8101	Cover assembly for 1F78-151 programmable.
	F61-2301	Wallplate for low voltage standard thermostats (5 ⁵ / ₈ "H x 5 ³ / ₄ "W). Beige. Includes adapter for mounting to vertical junction box. Same as F61-2068 except white.
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	F61-2300	Wallplate for all 1F90 series thermostats (except Blue models), (7¹/₄"W x 5¹/₂"H), Classic White color, includes adapter plate for mounting to horizontal or vertical junction box.
	F61-2499	Wallplate for 1C20-xxx/1C26-xxx (5 ⁵ / ₈ "H x 5"W)
	F61-2500	Wallplate for all 1F80 series thermostats (except Blue models), (7 ⁵ / ₈ "W x 4 ³ / ₄ "H), Classic White color, includes adapter plate for mounting to horizontal or vertical junction box.
	F61-2510	Wallplate for all 1F70 series thermostats, 6½"W x 4½"H, Classic White color, Includes adapter plate for mounting to horizontal or vertical junction box.
Marao	F61-2550	Wallplate for all 1F70 series thermostats, 6½"W x 4½"H, Classic White color, does not Include adapter plate for mounting to horizontal or vertical junction box.
	F61-2593	Wallplate for 1D70 or 1E70 series thermostats, 4 ¹ / ₂ "W x 6 ¹⁹ / ₃₂ "H, Classic White color.
UP1 8 0	F61-2600	Wallplate for 90 series Blue Touch- screen thermostats, 81/8"W x 53/8"H, Classic White color, for use with or without horizontal junction box.
Up₁ 0 0	F61-2634	Wallplate for 90 and 80 series Blue thermostats, $6^{1}/_{2}^{m}W \times 5^{m}H$, Classic White color, for use with or without horizontal junction box.
: (i).	F61-2663	Wallplate for Sensi Wi-Fi Thermostat, white, 63/4"W x 41/2"H for use with or without horizontal junction box

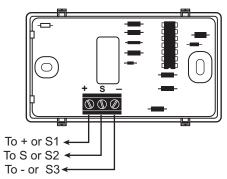
Item Number	Model Number	Description
	F75-0176	Temperature knob locking or limiting kit for 1A65-641, 1A65W-641, 1A66-641 and 1A66W-641.
	F92-0563	Temperature lever locking or temperature limiting kit for low voltage thermostats except 1C70, 1C20 and 1E26 series.
Will de west 1	F145-1082	Replacement door 1F90/1F97 (-51, -60, -71) 1F91-71, 1F92-71, 1F94-71, 1F95-71.
0	F145-0999	Replacement key for all thermostat guards, F29 series.
	F145-1328	90 Series Wired Indoor Remote Sensor. Replaces all previous Indoor Remote Sensors.
	F145-1378	90 Series Wired Outdoor TemperatureSensor, For Models with Outdoor Sensor Option.
† 3	F61-2648	Same as F61-2634 except 6 pack.
	F61-2642	Universal adapter plate for 1E65-144
exectson	F145RF- 1600	Wireless remote sensor for 1F98EZ-1621



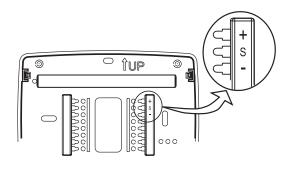
Thermostat Subbase

Note: When using shielded cable, connect shield of 18 or 20 gauge 3 connector cable to - or S3 on thermostat subbase.

Remote Sensor



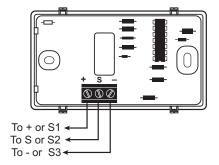
Single Stage Thermostat Remote Sensor Wiring (F145-1328)



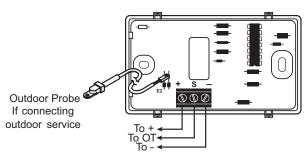
Thermostat Subbase

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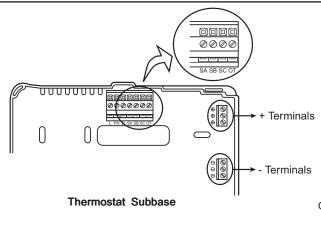
Remote Sensor



Remote Outoor Sensor

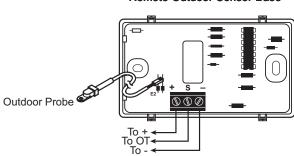


Staging Multi-Stage or Heat Pump Touchscreen Thermostat (1F95-1277) Indoor/Outdoor Remote Sensor Wiring (F145-1328/F145-1378)

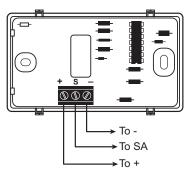


Note: When using shielded cable, connect shield of 18 or 20 gauge 3 connector cable to - or S3 on thermostat subbase.

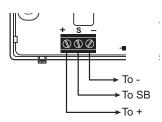
Remote Outdoor Sensor Base



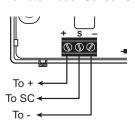
Remote Indoor Sensor A



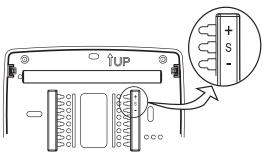
Remote Indoor Sensor B



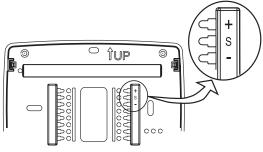
Remote Indoor Sensor C



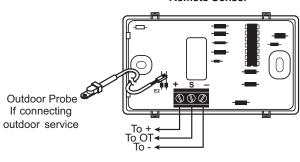
Staging Thermostat Multi-Stage or Heat Pump Indoor/Outdoor Remote Sensor Wiring (F145-1328/F145-1378)



Thermostat Subbase

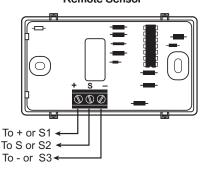


Remote Sensor



Note: When using shielded cable, connect shield of 18 or 20 gauge 3 connector cable to - or S3 on thermostat subbase.

Remote Sensor



Single Stage (1F97-1277) TouchscreenThermostat Indoor/Outdoor Remote Sensor Wiring (F145-1328/F145-1378)

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