















Heater Accessory Sheet

Thermostat Submittal Data & Specifications







Single Stage & Two Stage Thermostats

Qty.	Model	Range	Differential	Contact Action	Electrical Rating	Dimensions	Operation	Approvals
	 Modulating PLUS, Compatible TH-ET5	35°–75°F	Heat approx. 2°F	Opens on Rise	24–277 VAC 22 Amps Non-inductive	Height = 4.75" Width = 2.75" Depth = 2.75"	Single Stage Low Voltage High Voltage	UL Listed CSA Certified
Rugged plastic construction. Non-adjustable, bi-metal operative snap switch. Quick response. Compatible with F29GRD and MTGRD thermostat guards.								
	 Modulating PLUS, Compatible TH-PSPLV	45°–90°F	± 1°F Adjustable	Opens on Rise	120–240 VAC 16 Amps max. Non-inductive	Height = 4.7" Width = 2.7" Depth = 2.4"	Single Stage Line Voltage	UL Listed
Separate 5-day (weekday) and 2-day (weekend) programming. Program override with vacation hold. Compatible with F29GRD and MTGRD thermostat guards.								
	 TH-P721	45°–90°F	0.6°–1.9°F Adjustable	Opens on Rise	17–30 VAC 1.5 Amps max.	Height = 3.75" Width = 5.1" Depth = 1.1"	Single Stage Low Voltage Millivolt	N/A
	 TH-1F80	45°–90°F	0.6°–1.5°F Adjustable	Opens on Rise	24 V–1.5 Amps	Height = 3.8" Width = 6.1" Depth = 1.2"	Single Stage Low Voltage Millivolt	N/A
Separate 5-day (weekday) and 2-day (weekend) programming. Backlit LCD Display, 12/24 clock, and temperature hold. Compatible with F29GRD thermostat guard.								
	 TH-115	40°–110°F	3°F Fixed	Opens on Rise	120 VAC–16 Amps 240 VAC–12 Amps	Height = 7.0" Width = 3.0" Depth = 5.0"	Single Stage Line Voltage	UL Listed CSA Certified
Rugged weather resistant. Multi-positional mounting ability. NEMA 4X rated. Compatible with F29GRD and MTGRD thermostat guards.								
	 Modulating PLUS, Compatible TH-115-60B	0°–120°F	3°F Fixed	Opens on Rise	120 VAC–16 Amps 240 VAC–12 Amps	Height = 7.0" Width = 3.0" Depth = 5.0"	Single Stage Line Voltage	UL Listed CSA Certified
Rugged weather resistant. 60" sensing bulb attached. Multi-positional mounting ability. NEMA 4X rated.								
	 ETD-5M	35°–75°F	2°F Fixed	Opens on Rise	24/125/277 VAC 22 Amps	Height = 4.75" Width = 2.75" Depth = 2.75"	Single Stage Two Stage Low Voltage	UL Listed CSA Certified
Snap-action, double pole switch. Compatible with F29GRD and MTGRD thermostat guards.								
	 TH-BR52	45°–90°F	0.5°, 1°, or 2°F Adjustable	Opens on Rise	24 VAC (18-30 VAC) 1 Amp max. load/ terminal 4 Amps total max load	Height = 3.94" Width = 5.56" Depth = 1.19"	Single Stage Two Stage Low Voltage	California Title 24 Guidelines
Programmable digital thermostat. 7-day, 5-2 day, or non-programmable. Hardwire or battery power. Large, blue backlit display. Compatible with F29GRD thermostat guard, RS-BR52 indoor sensor, and RS-BR54 outdoor sensor.								
	 Wi-Fi icon TH-1F86WG	45°–99°F	1°–5°F Adjustable	Opens on Rise	20–30 VAC, 50/60 Hz 0.05–1.5 Amps/terminal 1.5 Amps max. load	Height = 3.75" Width = 5.875" Depth = 1.125"	Single Stage Two Stage	N/A
Wi-Fi remote access from smartphone, tablet, or PC. Operates on constant 24 VAC. Hardwire only. Compatible with F29GRD and MTGRD thermostat guards.								
	 TH-109	40°–100°F	2°F Fixed	Opens on Rise	24 VAC, 20 FLA 120 VAC, 16 FLA 240 VAC, 12 FLA 277 VAC, 10 FLA	Height = 7.34" Width = 3.46" Depth = 4.89"	Single Stage Two Stage Line Voltage	UL Listed CSA Certified
Type 300 series stainless coiled temperature sensing bulb, two piece plastic enclosure with all exposed parts made of stainless steel. Meets NEMA 4X equipment requirements.								




Modulating Controllers

Qty.	Model	Range	Differential	Contact Action	Electrical Rating	Dimensions	Operation	Approvals
	 TH-PUI	35°– 120° F	1°F Fixed	Opens on Rise	15 VAC (From Heater)	Height = 7.75" Width = 3.625" Depth = 1.875"	Modulating	N/A
This advanced microprocessor based controller, loaded with powerful and custom features, is a smart logic controller that offers optimal performance out of your MP Series heater. Allows heater(s) to modulate will full PID controller that considers various inputs and outputs, utilizes the current set temperature (based on an on-board thermistor or an externally connected zone sensor), mode selected, and other variables to determine the rate of modulation. Optional integration with remote sensors (sold separately).								
	 MP-T-OD	Remote temperature sensor, 10 KΩ for use with the MP Series heater. For “indoor wet environments” or outdoor use.						
	 MP-T	Remote temperature sensor, 10 KΩ for use with the MP Series heater. Indoor use only.						
	 MP-P	Potentiometer. Used to control MP Series heater(s) in outdoor or spot heating environments to allow the user to manually control the heater’s firing rate based on the dial position.						



Advanced Controls

Qty.	Model	Range	Differential	Contact Action	Electrical Rating	Dimensions	Operation	Approvals
	 TH-HWC2	-60°F– 270°F	1°–150°F Adjustable	Open/Close on Rise	24, 120, or 240 VAC 8 VA max at 60 Hz. 10 VA max at 50 Hz. Separate ground required.	Height = 8.156" Width = 4.406" Depth = 2.938"	Modulating	UL, CUL, CE, IP65
Stand-alone controller for applications requiring remote temperature, pressure, or humidity control. Electronic temperature controller with 2 temperature inputs, 4 SPDT relays, single, or two stage. 1 RS-SIS sensor included. 24,120, or 240V, max 2 sensors. Heaters require 24VAO or HLRP.								
	 RS-ODS	Remote 1097 Ω outdoor air temperature sensor for use with TH-HWC2 (probe mounted in weather-proof case).						
	 RS-SIS	Remote 1097 Ω indoor air temperature sensor (probe only). For use with TH-HWC2.						
	 RS-WRS	Wall mount remote 1097 Ω air sensor for use with TH-HWC2 (probe mounted in case).						
	 TH-1F95-TS	45°– 90°F	.5°–1.5°F Adjustable	Opens on Rise	24 VAC	Height = 4.5" Width = 6.875" Depth = 1.375"	Two Stage Low Voltage	N/A
7-day programmable. Optional remote sense (one per thermostat). Compatible with F29GRD thermostat guard.								
	 RS-F145	Remote sensor for use with TH-1F95-TS. Up to 200 ft. remote sense. For indoor use only.						
	RS-F145-OD	Remote sensor for use with TH-1F95-TS. Up to 200 ft. remote sense. For outdoor use.						


Advanced Controls

Qty.	Model	Description
	PCOXS	State-of-the-art pre-programmed building management system. Some features include a secure LCD user interface with keypad, 4 daily set points, runtime tracking and is housed in a durable attractive enclosure.
	PCOXS-32	Accommodates up to 4 single stage or 2 two stage heater zones. Max. of 20 single stage or 10 two stage heaters per zone.
	PCOXS-74	Accommodates up to 8 single stage or 4 two stage heater zones. Max. of 20 single stage or 10 two stage heaters per zone.
	PCOXS-116	Accommodates up to 12 single stage or 6 two stage heater zones. Max. of 20 single stage or 10 two stage heaters per zone.
	PCOXS-OP	Wall mount display enables communication with PCOXS up to 1600 ft. Zone management via graphic display and keypad.
	PCOXS-RS	Deluxe wall mount 24 V remote sensor. 14°–158°F range. Delivers a 4–20 mA signal to controller up to 300 ft. 10 KΩ.
	PCOXS-ODRS	Outdoor deluxe wall mount 24 V remote sensor. 14°–158°F range. Delivers a 4–20 mA signal to controller up to 300 ft. 10 KΩ.







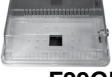





Sensors

Qty.	Model	Description
	RS-BR53	Indoor sensor for use with TH-BR52 thermostat. Mounts up to 200 ft. away. Sense range of 40°–99°F depending on thermostat. Contemporary design for any decor.
	RS-BR54	Outdoor sensor for use with TH-BR52 thermostat. Mounts outdoors up to 200 ft. away. Sense range capability of -40°–99°F depending on thermostat. Contemporary design for any decor. NOTE: Cannot be used as an outdoor sensor.

Millivolt Thermostats

Qty.	Model	Range	Differential	Contact Action	Electrical Rating	Dimensions	Operation	Approvals
	RK-130	35°–75°F	2°–3°F Fixed	Opens on Rise	Millivolt 1 Amp max	Height = 3.0" Width = 3.0" Depth = 1.13"	Single Stage Low Voltage Millivolt	N/A
		Quick response. Positive off.						

Miscellaneous

Qty.	Model	Description	Dimensions	Operation	Approvals
	 TH-DSSS1	Single zone, single stage, low voltage infrared patio heater controller with illuminated control knob. Standard with faceplate and heavy duty junction box.	Height = 4.75" Width = 3.0" Depth = 2.625"	Single Stage	N/A
	 TH-DSSS2	Two zone, single stage, low voltage infrared patio heater controller with two illuminated control knobs. Standard with faceplate and heavy duty junction box.	Height = 4.75" Width = 4.75" Depth = 2.625"	Two Stage	N/A
	 TH-DSTS1	Single zone, two stage, low voltage infrared patio heater controller with illuminated control knob. Standard with faceplate and heavy duty junction box.	Height = 4.75" Width = 3.0" Depth = 2.625"	Single Stage	N/A
	 TH-DSTS2	Two zone, two stage, low voltage infrared patio heater controller with two illuminated control knobs. Standard with faceplate and heavy duty junction box.	Height = 4.75" Width = 4.75" Depth = 2.625"	Two Stage	N/A
	 ERK	The External Relay Kit accessory can be used on HL3, HL2, DX3L, LS3 & LD3 models that require multiple heaters on one thermostat. This can mount on or near the heater. One ERK is needed per heater. Used in standard environments. An external transformer (eg. 4000-01V) is needed to power the control.		Single Stage Two Stage	N/A
	 ERK-HE	Similar to ERK but utilizes a rugged NEMA 6P rated enclosure for use in wet and corrosive environments. An external transformer (eg. 4000-01V) is needed to power the control.		Single Stage Two Stage	N/A
	 F29GRD	White Rodgers thermostat guard. Clear plastic material with two locking keys. Mount (vertical or horizontal) to exposed "J" box. Includes hardware. NOTE: Ensure guard is compatible with thermostat dimensions.	Height = 5.375" Width = 8.25" Depth = 3.5"	N/A	N/A
	 MTGRD	White Rodgers thermostat metal guard. Beige metal material with (2) locking keys. Mounts (vertical or horizontal) to exposed "J" box. Includes hardware. NOTE: Ensure guard is compatible with thermostat dimensions.	Height = 3.8" Width = 6.0" Depth = 3.125"	N/A	N/A
	 R8285B	Combination relay transformer, dual pole, 15 resistive Amps each pole. For controlling 120 V units with 24 V thermostats. 120 V power in, 24 V power out.	Height = 4.25" Width = 4.25" Depth = 3.5"	Normally Open	CSA UL Listed
	 SWPD-4H	Paragon timer. Manually activated time control with white wall plate and knob. 4-hour twist timer. 120 V–20 A (control up to 4 tube heaters) or 240/277 V–10 A. Also compatible with 24 V systems.	Height = 4.25" Width = 1.75" Depth = 2.25"	Single Pull, Single Throw	CSA
	 SWPD60	Paragon timer. Manually activated time control with white wall plate and knob. 60-minute twist timer with 5-minute increments. 120 V–20 Amp (control up to 4 tube heaters) or 240/277 V–10 A. Also compatible with 24 V systems.	Height = 4.25" Width = 1.75" Depth = 2.25"	Single Pull, Single Throw	CSA
	 WEP-TS	Weatherproof enclosure package with 4-hour timer and on-off control. Ideal for use in outdoor heating applications where timer control is desired. Package for two stage scenarios. Can operate up to 120 V–20 A. Can also be used for 24 V switching. Must be mounted to an electrical junction box suitable for the application. Field assembly and wiring required.	Height = 5.75" Width = 5.5" Depth = 3.25"	Single Stage Two Stage	