

THERMOSTATS & CONTROLS



 **BERKCO**®

A Marley Engineered Products Brand

THERMOSTATS & CONTROLS

COMPATIBILITY CHART

o Compatible - See Model Selection Chart / Contact MEP

	2500 ¹	BKOC ¹	HBB	OB	FRC ²	SRA ²	VFK ²	SRA ³	FRA ³	COS-E ⁴	SED	GFR	QFG	QTS ⁶	FFCH ⁷	QFF ⁷	QCH ⁷	HUHAA ⁸	HUH ⁸	CUH900	BPH	CONNECTORS ⁸	RCC	CP	VRP	VRS	OTHER RADIANT
ELECTRONIC W/ DIGITAL DISPLAY	TL8230A1003/U	o	o	o	o					-	-	-	-	o	-	-	-			o		/	o	o	/	/	/
	TH108PLUSA	o	o	o	o					-	-	-	-	o	-	-	-					/	o	o	/	/	/
	TH106A	o	o	o	o					-	-	-	-	o	-	-	-			o		/	o	o	/	/	/
	TH114A240DBA	o	o	o	o					-	-	-	-	o	-	-	-			o		/	o	o	/	/	/
	TH5220D1003									-	-	-	-		-	-	-				o	/			/	/	/
MECHANICAL - MANUAL TEMPERATURE CONTROL	MS26	o	o	o	o					-	-	-	o	-	-	-	/	/			/	o	o	/	/	/	
	MD26	o	o	o	o					-	-	-	o	-	-	-	/	/			/	o	o	/	/	/	
	M601W	o	o	o	o					-	-	-	o	-	-	-	/	/	o		/	o	o	/	/	/	
	M601TPW	o	o	o	o					-	-	-	o	-	-	-	/	/	o		/	o	o	/	/	/	
	M602W	o	o	o	o					-	-	-	o	-	-	-	/	/	o		/	o	o	/	/	/	
	M602TPW	o	o	o	o					-	-	-	o	-	-	-	/	/	o		/	o	o	/	/	/	
	M611W	o	o	o	o					-	-	-	o	-	-	-	/	/	o		/	o	o	/	/	/	
	M612W	o	o	o	o					-	-	-	o	-	-	-	/	/	o		/	o	o	/	/	/	
	M600S*																										
	M600MTP*																										
	T100	o	o	o	o					-	-	-	o	-	-	-	/	/	o		/	o	o	/	/	/	
	T200	o	o	o	o					-	-	-	o	-	-	-	/	/	o		/	o	o	/	/	/	
	WR651	o	o	o	o					-	-	-	o	-	-	-	/	/			/	o	o	/	/	/	
WR661	o	o	o	o					-	-	-	o	-	-	-	/	/			/	o	o	/	/	/		
COMMERCIAL/ INDUSTRIAL	WT11A														o	o	o	/	/	o		/	o	/	/	/	
	WT12A																	/	/	o		/	o	/	/	/	
	WR80	o	o	o	o										o	o	o	/	/	o		/	o	o	/	/	/
	WR80EP																	/	/			/			/	/	/
LOW VOLT ⁶	T8775A1009	o	o	o	o															o		o					
	T8775C1005	o	o	o	o															o	o	o					
ELECTRONIC RELAY	LTR1120																										
	LTR208240																										
	LTR1277																										
	LTR2240																										
	LT186F01	o	o	o	o										o	o	o			o		o	o	o	/	/	/

NOTE: (1) Electronic thermostats have amperage minimums and each model has different voltage requirements, please check catalog thermostat specifications. (2) FRC AND VFK Series models require the removal of the internal thermostat and wire wall thermostat in its place for proper fan operation. See model selection for specific thermostat. (3) SRA and FRA Series models require the removal of the internal thermostat from unit. Wire wall thermostat for proper fan operation. See model selection for specific thermostats. (4) CRA Series models require the removal of the internal thermostat from unit. Wire wall thermostat for proper fan operation. See model selection for specific thermostats. (5) Low voltage thermostats operate in conjunction with low voltage control systems using relays. Compatible with all standard 24V two wire thermostats. Can accept analog signal of 0-10 VDC. (6) The 1100 watt units can use either single-pole or double-pole thermostats. The 1500 watt units must use a double-pole thermostat. (three conductors from thermostat to unit). Does not apply to low voltage thermostats, which need a transformer. (7) FFCH and QFF Series models require different thermostats based on internal wiring. Wire wall thermostat for proper fan operation. See model selection for specific thermostats. Can not use digital thermostats with this unit. (8) Due to the complexity of wiring variations for remote wall thermostats with these products, we recommend that you contact Technical Services for assistance.

MODEL SELECTION CHART

HEATER	THERMOSTAT
GFR1500F	TH106A, M601W, M611W, T100, WR651
GFR2004F	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661
GFR2404F	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661
GFR1500T2F	TH106A, M601W, M611W, T100, WR651
GFR2004T2F	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661
GFR2404T2F	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661
QFG1512IFM	TH106A, M601W, M611W, T100, WR651
QFG2024IFM	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661
QFG2224IFM	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661
QFG2228IF	M602W, M612W, T200, WR661
QFG1512T2M	TH106A, M601W, M611W, T100, WR651
QFG2024T2M	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661
QFG2224T2M	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661
ECP1024	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661
ECP1524	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661
CZ1512T	TH106A, M601W, M611W, T100, WR651
CZ1012T	TH106A, M601W, M611W, T100, WR651
CZ1048T	TH106A, M601W, M611W, T100, WR651
CZ1548T	TH106A, M601W, M611W, T100, WR651
CZ2048T	TH106A, M601W, M611W, T100, WR651
CZ1512IF	TH106A, M601W, M611W, T100, WR651
CZ1012IF	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661
CZ1048IF	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661
CZ1548IF	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661
CZ2048IF	TL8230A1003/U, TH106A, TH108PLUSA, M602W, M612W, T200, WR661

HEATER	THERMOSTAT
FFCH548	MS26, M601W
FFCH542	MS26, M601W
FFCH547	MS26, M601W
FFCH558	MS26, M601W
FFCH552	MS26, M601W
FFCH557	MS26, M601W
QFF1500	MS26, M601W
QFF3007	MS26, M601W
QFF4008	MS26, M601W
QFF4004	MS26, M601W
QFF4007	MS26, M601W
QFF4804	MS26, M601W
QFF4807	MS26, M601W
QFF3003	-
QFF3006	-
QFF4003	-
QFF4006	-
QFF4803	-
QFF4806	-
QFF48483	-
QFF48483LV	-
QCH1101F	M601W, MS26
QCH1151F	M601W, MS26
QCH1202F	M601W, MS26
QCH1207F	M601W, MS26

NOTE: Programmable thermostats cannot be used with the models listed above.

THERMOSTATS & CONTROLS

THERMOSTATS | ELECTRONIC DIGITAL LINE VOLTAGE



	TH108PLUSA	TH114A240DBA	TH106A	TL8230A1003/U	YTL9160AR1000OW
ACTION	Triac: Silent Operation	Electronic Switch	Triac: Silent Operation	Microprocessor	Microprocessor
TYPE	12.5A Resistive 2-wire SPST	15 A Resistive 4-wire DPST	16.7A Resistive 2-wire SPST	16.7 A Resistive 4-wire DPST	12.5A Resistive 2-wire SPST
WATT RATING	Minimum: 2-amp load	No minimum load	Minimum: 2-amp load	No minimum load	Minimum: 0.4-amp load
120V	n/a	n/a	2000 watts	n/a	1500 watts
208V	n/a	n/a	n/a	3120 watts	2600 watts
240V	3000 watts	3600 watts	4000 watts	3600 watts	3000 watts
277V	n/a	n/a	n/a	n/a	n/a
PILOT DUTY	No	No	No	No	No
TEMP. RANGE (°F)	40°F to 85°F	40°F to 85°F	40°F to 85°F	40°F to 85°F	40°F to 85°F
DIFFERENTIAL	Accuracy: Within +/- 0.27°F	Accuracy: Within 1°F of setpoint	Accuracy: Within +/- 0.27°F	Accuracy: Within 1°F of setpoint	Accuracy: Within +/- 1°F
FEATURES	Digital, non-programmable 12.5amp model delivers exceptional accuracy. Ideal for radiant ceiling panels and baseboard. Not for fan-forced heaters.	Digital, non-programmable model delivers exceptional accuracy. Ideal for radiant ceiling panels and baseboard. Can be used for fan-forced heaters.	Digital, programmable high capacity model delivers exceptional accuracy. Ideal for radiant ceiling panels and baseboard. Can be used for fan-forced heaters and resistive loads.	Digital, programmable model delivers exceptional accuracy. Ideal for radiant ceiling panels and baseboard. Can be used for fan-forced heaters.	Wireless, digital and programmable model delivers exceptional accuracy. Ideal for radiant ceiling panels and baseboard. Can be used for fan-forced heaters.



THERMOSTATS | ELECTRONIC DIGITAL LOW VOLTAGE



	T8775A1009	T8775C1005	TH5220D1003
ACTION	Electronic Switch	Electronic Switch	Electronic Switch
TYPE	24V .015 -1.0A @ 30V 2-wire	24V .015 -1.0A @ 30V 2-wire	24V .015 -1.0A @ 30V 5-wire
WATT RATING	-	-	-
120V	n/a	n/a	n/a
208V	n/a	n/a	n/a
240V	n/a	n/a	n/a
277V	n/a	n/a	n/a
PILOT DUTY	24VAC	24VAC	24VAC
TEMP. RANGE (°F)	40°F to 90°F	40°F to 90°F	40°F to 90°F
DIFFERENTIAL	Accuracy: Within 1°F of setpoint	Accuracy: Within 1°F of setpoint	Accuracy: Within 1°F of set
FEATURES	Digital, non-programmable 24V "Round" model delivers exceptional accuracy. (Heat Only)	Digital, non-programmable 24V "Round" model delivers exceptional accuracy. (Heat and Cool)	Digital, 24V programmable 2-stage 5-7 wire heat and cool thermostat. One-touch temperature control with exceptional accuracy. Ideal for plenum heaters, and HVAC systems.

THERMOSTATS | LINE VOLTAGE



	MS26	MD26	M601W	M602W	M601TPW	M602TPW	M611W	M612W
ACTION	Snap Action		Snap Action		Snap Action		Snap Action	
TYPE	SPST	DPST	SPST	DPST	SPST	DPST	SPST	DPST
WATT RATING	Model MD26 has Positive OFF		Model M602W has Positive OFF		Model M602TPW has Positive OFF		Model M612W has Positive OFF	
120V	22A		22A		22A		22A	
208V	22A		22A		22A		22A	
240V	22A		22A		22A		22A	
277V	18A		18A		18A		18A	
PILOT DUTY	No		Yes 125VA		Yes 125VA		Yes 125VA	
TEMP. RANGE (°F)	50°F to 80°F		45°F to 75°F		45°F to 75°F		45°F to 75°F	
DIFFERENTIAL	+/- 5°F		+/- 4°F		+/- 4°F		+/- 2 1/2°F	
FEATURES	These economy thermostats are the snap action type that are used in apartment construction. Good thermostat for its value. Ideal for radiant cove heaters and baseboard.		These bi-metal snap-action thermostats are sensitive. Large knob allow for easy adjustment.		Same as M601W and M602W except the cover mounting cover offer tamper-proof feature.		Built-in heat anticipator assures closer control of room temperature.	



	M600MTP	M600S	T100	T200	WR651	WR661
ACTION	Modulation (2-stage)	Simultaneous switching (double ckt)	Snap Action with Heat Anticipator		Creep (Hydraulic) Action	
TYPE	DPST		SPST	DPST	SPST	DPST
WATT RATING						
120V	22A	22A	22A		22A	
208V	22A	22A	22A		22A	
240V	22A	22A	22A		22A	
277V	18A	18A	18A		na	
PILOT DUTY	Yes 125VA	Yes 125VA	Yes 125VA		No	
TEMP. RANGE (°F)	50°F to 80°F	50°F to 80°F	50°F to 90°F		40°F to 85°F	
DIFFERENTIAL	Accuracy: Within 3°F of setpoint	Accuracy: Within 3°F of setpoint	+/- 2 1/2°F		+/- 2°F	
FEATURES	One thermostat controls two separate heating circuits and reduces input during light load periods. Second stage activates when temperature drops to approx. 1-1/2°F below the first stage turn-ON temperature.	Simultaneous control of two heating loads. Used where the total load slightly exceeds capacity of a single switch, where two thermostats are impractical. Both switches are calibrated to operate at approx. the same temperature.	Line voltage thermostat with everything; Performance, reliability, durability, and a large knob. Built-in heat anticipation assures close temperature regulation. Large knob for easy rotation.		Extra-sensitive element in control knob senses radiant heat as well as air temperature for ultimate control. May cause slight radio or television interference in outlying fringe areas.	



THERMOSTATS & CONTROLS

CONTROLS | SPECIALTY



	WR80	JC80EP	WT11A	WT12A	LTR SERIES
ACTION TYPE	Snap Action Switch	Snap Action Switch	Positive snap action switch		Electronic Relays
WATT RATING			Nema 4X rated		These electronic relays have been designed for silent control of high voltage resistive loads from a low voltage control circuit. Inductive motor loads can also be controlled (120V to 240V only). Compatible with 24V thermostats. LTR1120 - 120V; 22A LTR208240 - 208V/240V; 22A LTR1277 - 277V; 19A
120V	25A	25A	25A	n/a	
208V	22A	22A		25A	
240V	22A	22A		25A	
277V	18A	18A		22A	
PILOT DUTY	Yes 125VA	Yes 125VA	Yes 125VA		
TEMP. RANGE (°F)	40°F to 90°F	40°F to 90°F	40°F to 110°F		
DIFFERENTIAL	+/- 3°F	+/- 3°F	+/- 2 1/2°F		
FEATURES	Rugged design for garages, factories, warehouses and similar commercial and industrial installations. The WR80 can control several heaters by using an external contractor.	This explosion proof room thermostat is suitable for Class 1, Group D and Class II, Groups E, F, and G locations.	Nema 4X weatherproof enclosure. The control has a SPDT output and can be used for heating or cooling (ventilation) Multi-positional mounting offers flexibility in new or existing installations.		The relays can be used with model LT186F01 electronic room sensor, providing proportional and integral control. Also can be tied to building management systems.



	LTR2240	TC1	M600THW	M600THB
ACTION TYPE	Dual Silent Relay	Enclosure protection for thermostats. Material: Impact resistant polycarbonate. Clear. Dimensions are: 7" L X 4.28" H X 2.75" D	M600THW - White thermostat cover with built-in thermometer. For M600 Series stats.	
WATT RATING	(2) single pole switches Resistive Inductive		M600THB - Beige thermostat cover with built-in thermometer. For M600 Series stats.	
120V	N/A	Thermostat enclosure kits are designed to protect the thermostat. Circulating slots allow airflow for proper operation. Guards are lockable and a key is provided to maintain security.	Minimum 50pcs Allow 4 weeks.	
208V	25A 1HP, 8.8A			
240V	25A 1HP, 8A			
277V	N/A			
PILOT DUTY	Yes 125VA			
TEMP. RANGE (°F)	Can be operate in 20 to 140°F			
DIFFERENTIAL	Accuracy: Within 1.5°F of setpoint			
FEATURES	This dual level temperature relay may be used to operate two separate heating loads by means of a single low voltage thermostat. Relay is mounted in an enclosure.			

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