



Thermostats and Controls

THERMOSTATS

L TRON

T LLN VOLT



T LO NO	T	T	T	T PP
ction	Triac: Silent Operation	Electronic Switch	Triac: Silent Operation	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
Watt Rating	Minimum: 2 amp load	No minimum load	Minimum: 2 amp load	No minimum load
V	1500 watts	n/a	2000 watts	n/a
V	n/a	n/a	n/a	3000 watts
V	3000 watts	3600 watts	4000 watts	4000 watts
V	n/a	n/a	n/a	n/a
Pilot uty	No	No	No	No
Range (°)	40°F to 85°F	40°F to 85°F	40°F to 85°F	40°F to 85°F
ifferential	Accuracy: Within +/- 0.27°F	Accuracy: Within 1°F of setpoint	Accuracy: Within +/- 0.27°F	Accuracy: Within 1°F of setpoint
eatures	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.

THERMOSTATS

L TRON

T LLOW VOLT



T LO NO	T	T	T	LT
ction	Electronic Switch	Electronic Switch	Electronic Switch	Microprocessor
Type	24 volt .015 -1.0A @ 30V 2-wire	24 volt .015 -1.0A @ 30V 2-wire	24 volt .015 -1.0A @ 30V 5-wire	Wall thermistor
Watt Rating				
V	n/a	n/a	n/a	22A
V	n/a	n/a	n/a	22A
V	n/a	n/a	n/a	22A
V	n/a	n/a	n/a	19A
Pilot uty	24VAC	24VAC	24VAC	n/a
Range (°)	40°F to 90°F	40°F to 90°F	40°F to 90°F	40°F to 90°F
ifferential	Accuracy: Within 1°F of setpoint	Accuracy: Within 1°F of setpoint	Accuracy: Within 1°F of set	Accuracy Within 1°F of setpoint
eatures	Digital, non-programmable 24 volt "Round" model delivers exceptional accuracy. (Heat Only)	Digital, non-programmable 24 volt "Round" model delivers exceptional accuracy. (Heat and Cool)	Digital, 24volt programmable 2 stage 5-7 wire heat and cool thermostat. One touch temperature control with exceptional accuracy. Ideal for plenum heaters, and HVAC systems.	Proportional and Integral non-programmable electronic room sensor thermostat with set point capability, providing exceptional accuracy. Transmits actual temperature to a LTR relay.

THERMOSTATS

L N VOLT



	T LO NO	MS	M	M	W	M	W	M	TPW	M	TPW	M	W	M	W		
ction		Snap Action		Snap Action				Snap Action				Snap Action					
Type		SPST	DPST	SPST	DPST	SPST	DPST	SPST	DPST	SPST	DPST	SPST	DPST	SPST	DPST		
mp Rating		Model MD26 has Positive OFF		Model M602W has Positive OFF				Model M602TPW has Positive OFF				Model M612W has Positive OFF					
V		22A		22A				22A				22A					
V		22A		22A				22A				22A					
V		22A		22A				22A				22A					
V		18A		18A				18A				18A					
Pilot uty		No		Yes 125VA				Yes 125VA				Yes 125VA					
Range (°)		50°F to 80°F		45°F to 75°F				45°F to 75°F				45°F to 75°F					
ifferential		+/- 5°F		+/- 4°F				+/- 4°F				+/- 2 1/2°F					
eatures		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. These snap action thermostats are more sensitive that			

THERMOSTATS

L N VOLT



	T LO NO	M	MTP	M	S	T	T	WR	WR
ction		Modulation (2 stage)		Simultaneous switching (double ckt)		Snap Action with Heat Anticipator		Creep (Hydraulic) Action	
Type		DPST				SPST	DPST	SPST	DPST
Watt Rating									
V		22A		22A		22A		22A	
V		22A		22A		22A		22A	
V		22A		22A		22A		22A	
V		18A		18A		18A		na	
Pilot uty		Yes 125VA		Yes 125VA		Yes 125VA		No	
Range (°)		50°F to 80°F		50°F to 80°F		50°F to 90°F		40°F to 85°F	
ifferential		Accuracy: Within 3°F of setpoint		Accuracy: Within 3°F of setpoint		+/- 2 1/2°F		+/- 2°F	
eatures		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.	

THERMOSTAT CONTROLS

HEATER SERIES	Series	W	W S	R	R Q	QTS
Refer to the Notes Section where specified	See Note 1	See Note 2	See Note 3	See Note 4		See Note 6
Thermostats below are electronic with digital display						
TH110DPP	Yes	Yes	The electronic thermostats are not recommended for this heater	No	See model selection chart.	Yes
TH300024	Yes	Yes		No	See model selection chart.	No
TH36004	Yes	Yes		No	See model selection chart.	Yes
TH400024	Yes	Yes		No		Yes
TH522D1003	No	No		No		No
Thermostats listed below are of mechanical type and want to control temperature setting manually						
MS26	Yes	Yes	See model selection chart for the recommended thermostat	No	See model selection chart.	Yes
MD26	Yes	Yes		No	See model selection chart.	Yes
M601W	Yes	Yes		Yes		Yes
M601TPW	Yes	Yes		Yes		Yes
M602W	Yes	Yes		No		Yes
M602TPW	Yes	Yes		No		Yes
M611W	Yes	Yes		No		Yes
M612W	Yes	Yes		No		Yes
M600S	These stats are used when there are two elements to control. Two-stage operation and modulating type. Not normally used for above products.					
M600MTP						
T100	Yes	Yes	See model selection chart for the recommended thermostat	Yes	See model selection chart.	Yes
T200	Yes	Yes		No	See model selection chart.	Yes
WR651	Yes	Yes		No	See model selection chart.	Yes
WR661	Yes	Yes		No		Yes
Thermostats below are more commercial industrial and not normally used on residential applications						
WT11A	No	Yes	See model selection chart for the recommended thermostat	No	No	No
WT12A	No	Yes		No	No	No
WR80	Yes	Yes		No	No	No
WR80EP	No	No		No	No	No
Thermostats below are low voltage (110 to 240 volts) See note # 5 below						
T8775A1009	Yes	Yes	No	No	No	No
T8775C1005	Yes	Yes	No	No	No	No
Electronic transformer relays with built in transformer						
LTR1120						
LTR208240						
LTR1277						
LTR2240						
LT186F01	Yes	Yes	Yes	Yes	Yes	Yes

† For infrared type heaters, controls may be different for the type of element used. Contact Technical Services for recommendation.

Note 1: Electronic thermostats have amperage minimums and each model has different voltage requirements, please check catalog thermostat specifications.

Note 2: AWH, CWH, LFK Series models require the removal of the internal thermostat and wire wall thermostat in its place for proper fan operation. See THERMOSTAT MODEL SELECTION (page 6) for specific thermostat.

Note 3: CWHDSAG and CWHDS Series models require the removal of the internal thermostat from unit. Wire wall thermostat for proper fan operation. See THERMOSTAT MODEL SELECTION (page 6) for specific thermostats.

Note 4: CRA, SED, 1235, and 2400 Series models require the removal of the internal thermostat from unit. Wire wall thermostat for proper fan operation. See THERMOSTAT MODEL SELECTION (page 6) for specific thermostats.

Note 5: Low voltage thermostats operate in conjunction with low voltage control systems using relays. Compatible with all standard 24V two wire thermostats.

Note 6: The 1100 watt units can use either single pole or double stats. The higher wattage, 1500watt, must use a double pole stat. (3 conductors from stat to heater) See website for further details.

Note 7: CDF and EFF Series models require different thermostats based on internal wiring. Wire wall thermostat for proper fan operation. See THERMOSTAT MODEL SELECTION (page 6) for specific thermostats. Can not use digital thermostat with this unit.

Note 8: Due to the complexity of wiring variations for remote wall thermostats with these products, we recommend that you contact Technical Services for assistance.

Note 9: Remove internal thermostat and wire wall thermostat in its place for proper fan operation.

Note 10: Thermostat wire to the two white wires on the heater.

Note 11: Wire wall thermostats as directed in the Installation Manual for proper fan operation.

Technical Services contact information

Phone: 800-452-4328

email: meptechsupport@marleymep.com

L N T R	N T UN T T R	UN T T R	PL NUM T R	LUM NUM N ST L ONV TORS	OV R NT R	P NT	RP RS N R R T RS	N USTR L R NT
	MU U	U	MSP	II Series	R	P	RP & RS	M N and L

Q

See note 7 See note 8 See note 8

Thermostats below are electronic with digital display

See model selection chart.	Contact Tech Services for assistance	Yes	No	Contact Tech Services for assistance	Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		No	Yes		No	No	†	†

Thermostats listed below are of mechanical type and want to control temperature setting manually

See model selection chart.	Contact Tech Services for assistance	No	No	Contact Tech Services for assistance	Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†

See model selection chart.	Contact Tech Services for assistance	Yes	No	Contact Tech Services for assistance	Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		No	No		Yes	Yes	†	†
		No	No		Yes	Yes	†	†

Thermostats below are more commercial industrial and not normally used on residential applications

Yes	Contact	Yes	No	Contact	No	Yes	†	†
No	Tech Services	Yes	No	Tech Services	No	Yes	†	†
Yes	for assistance	Yes	No	for assistance	Yes	Yes	†	†
No		No	No		No	No	†	†

Thermostats below are low voltage (to volts) See note # below

No	No	Yes	No	Yes	Yes	Yes	†	†
No	No	Yes	Yes	Yes	Yes	Yes	†	†

lectronic transformer relays with built in transformer

Yes	Yes	Yes	No	Yes	Yes	Yes	†	†
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SP LTLY ONTROLS



CAT. NO.	VOLT	AMPS
L R1120	120	22A
L R208240	208/240	22A
L R1277	277	19A

T LO NO	WR	WR P	WT WT	LTRS R S
ction	Snap Action Switch	Snap Action Switch	Positive snap action switch	Electronic Relays
Type	SPST	SPST	SPDT	Microprocessor base design
mp 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 and accepts analog signal of 0-10V DC.
V	25A	25A	25A n/a	
V	22A	22A	25A	
V	22A	22A	25A	
V	18A	18A	22A	
Pilot uty	Yes 125VA	Yes 125VA	Yes 125VA	The relays can be used with model LT186F01 electronic room sensor, providing proportional and integral control. Also can be tied to building management systems.
Range (°)	40°F to 90°F	40°F to 90°F	40°F to 110°F	
ifferential	+/- 3°F	+/- 3°F	+/- 2 1/2°F	
eatures	Rugged design for garages, factories, warehouses and similar commercial and industrial installations. The WR80 can control several heaters by using an external contactor.	This explosion proof room thermostat is suitable for Class I, 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.	

SP LTLY ONTROLS



T LO NO	LTR	T	M T W M T
ction	Dual Silent Relay	Enclosure protection for thermostats.	M600THW -White thermostat cover with built-in thermometer. For M600 Series stats.
Type	2 single pole switches.	Material: Impact resistant polycarbonate. Clear. Dimensions are: 7"L X 4.28"H X 2.75" D	M600THB - Beige thermostat cover with built-in thermometer. For M600 Series stats.
Watt Rating	Resistive Inductive		
V	N/A		
V	25A 1HP, 8.8A		
V	25A 1HP, 8A		
V	N/A		
Pilot uty	Yes 125VA	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.
Range (°)	Can be operate in 20 to 140°F		
ifferential	Accuracy: Within 1.5°F of setpoint		
eatures	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.		

