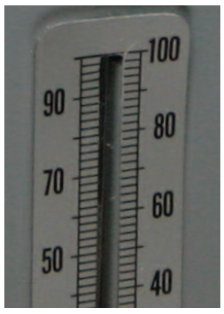
QMARK



Thermostats and Controls

THERMOSTATS

L TRON T L L N 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 (°)	40ºF to 85ºF	40ºF to 85ºF	40ºF to 85ºF	40ºF to 85ºF
ifferential	Accuracy: Within +/- 0.27ºF	Accuracy: Within 1ºF of setpoint	Accuracy: Within +/- 0.27ºF	Accuracy: Within 1ºF 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 L LOW 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 (°)	40ºF to 90ºF	40ºF to 90ºF	40ºF to 90ºF	40ºF to 90ºF
ifferential	Accuracy: Within 1ºF of setpoint	Accuracy: Within 1ºF of setpoint	Accuracy: Within 1ºF of set	Accuracy Within 1ºF 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
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 (°)	50ºF to 80ºF	45ºF to 75ºF	45ºF to 75ºF	45ºF to 75ºF
ifferential	+/- 5ºF	+/- 4ºF	+/- 4ºF	+/- 2 1/2ºF
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 sensetive. 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 (°)	50ºF to 80ºF	50ºF to 80ºF	50ºF to 90ºF	40ºF to 85ºF
ifferential	Accuracy: Within 3ºF of setpoint	Accuracy: Within 3ºF of setpoint	+/- 2 1/2ºF	+/- 2ºF
eatures	One thermostat controls two separate heating circuits and reduces input during light load periods. Second stage activates when temperature drops to approx. 1 1/2ºF 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.

T L T RMOST TS N ONTROLS

T RTYP	S R S S O R	O S O R	L R W LL T R	SM LL W LL T R	SM LL W LL T R	R ST R W LL T R	TO SP T R
eater Series	**Series QM**		**W W L**	**W S W S**	**R S &**	**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	No	See model	See model	Yes
TH300024	Yes	Yes	thermostats are not	No	selection	selection	No
TH36004	Yes	Yes	recommended	No	chart.	chart.	Yes
TH400024	Yes	Yes	for this heater	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	No	See model	See model	Yes
MD26	Yes	Yes	selection chart for	No	selection	selection	Yes
M601W	Yes	Yes	the recommended	Yes	chart.	chart.	Yes
M601TPW	Yes	Yes	thermostat	Yes			Yes
M602W	Yes	Yes		No			Yes
M602TPW	Yes	Yes		No			Yes
M611W	Yes	Yes		No			Yes
M612W	Yes	Yes		No			Yes
M600S M600MTP	These stats are used when there are two elements to control. Two-stage operation and modulating type. Not normally used for above products.						
T100	Yes	Yes	See model	Yes	See model	See model	Yes
T200	Yes	Yes	selection chart for	No	selection	selection	Yes
WR651	Yes	Yes	the recommended	No	chart.	chart.	Yes
WR661	Yes	Yes	thermostat	No			Yes
Thermostats below are more commercial ndustrial and not normally used on residential applications							
WT11A	No	Yes	See model	No	No	No	No
WT12A	No	Yes	selection chart for	No	No	No	No
WR80	Yes	Yes	the recommended	No	No	No	No
WR80EP	No	No	thermostat	No	No	No	No
Thermostats below are low voltage (to volts) See note # below							
T8775A1009	Yes	Yes	No	No	No	No	No
T8775C1005	Yes	Yes	No	No	No	No	No
lectronic transformer relays with built in transformer							
LTR1120 LTR208240 LTR1277 LTR2240	H		S	S	A		
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 conjuction 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 ontact nformation
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	P R NT	RP RS N R R T RS	N USTR L R NT
	MU U	U	MSP	ll 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	†	†
		No	No		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	†	†
		No	No		Yes	Yes	†	†
		Yes	No		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 ndustrial and not normally used on residential applications								
Yes	Contact Tech Services for assistance	Yes	No	Contact Tech Services for assistance	No	Yes	†	†
No		Yes	No		No	Yes	†	†
Yes		Yes	No		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	†	†

T RMOST T MO L S L T ON

From Notes 2, 3, 4 and 7 (see page 4)

T R MO L	W LL T RMOST T
FRC1512	M601W
FRC3180	M601W
FRC4020	M601W
FRC4024	M601W
FRC4027	M601W
FRC3027	M601W
FRC4820	M601W
FRC4824	M601W
FRC4827	M601W
FRC40203	NA
FRC40243	NA
NOT : See note 10, pg. 4.	
SRA1012DSAG	M601W
SRA1512DSAG	M601W
SRA1812DSAG	M601W
SRA2024DSAG	M601W
SRA2027DSAG	M601W
SRA1527DSAG	M601W
SRA2020DSAG	M601W
NOT : See note 10, pg. 4.	
SRA1012DS	M601W
SRA1512DS	M601W
SRA1812DS	M601W
SRA2024DS	M601W
SRA2027DS	M601W
SRA1527DS	M601W
SRA2020DS	M601W
NOT : See note 10, pg. 4.	
FRA1512	M602W
FRA1812	M602W
FRA4024	M602W
FRA4027	M602W
FRA3027	M602W
FRA4020	M602W
FRA4824	M602W
FRA4827	M602W
FRA4820	NA
NOT : See note 10, pg. 4.	
GFR1500	TH400024, M601W, M611W, T100, WR651
GFR2004	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
GFR2404	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
GFR1500T2	TH400024, M601W, M611W, T100, WR651
GFR2004T2	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
GFR2404T2	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
QFG1512IFM	TH400024, M601W, M611W, T100, WR651
QFG2024IFM	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
QFG2224IFM	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
QFG2228IF	M602W, M612W, T200, WR661
QFG1512T2M	TH400024, M601W, M611W, T100, WR651
QFG2024T2M	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
QFG2224T2M	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661

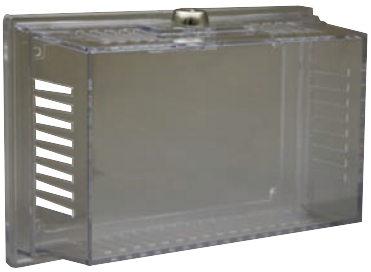
T R MO L	W LL T RMOST T
VFK151	M602W
VFK204	M602W
VFK304	M602W
VFK404	M602W
VFK484	M602W
NOT : See note 10, pg. 4.	
SED1012C	TH400024, TH300024, M601W, M611W, T100, WR651
SED1024C	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
SED1512	TH400024, TH300024, M601W, M611W, T100, WR651
SED2024	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
ECP1024	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
ECP1524	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
CRA1512IF	TH400024, M601W, M611W, T100, WR651
CRA2028IF	M602W, M612W, T200, WR661
CRA2024IF	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
CRA2224IF	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
CRA1512T2	TH400024, M601W, M611W, T100, WR651
CRA2024T2	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
CRA2224T2	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
1235	TH400024, M601W, M611W, T100, WR651
1235P	TH400024, M601W, M611W, T100, WR651
2435	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
2435P	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
FFCH548	MS26, M601W
FFCH542	TH400024, MS26, M601W
FFCH547	MS26, M601W
FFCH558	MS26, M601W
FFCH552	MS26, M601W
FFCH557	MS26, M601W
NOT : See note 11, pg. 4.	
QFF1500	TH400024, MS26, M601W
QFF3007	MS26, M601W
QFF4008	MS26, M601W
QFF4004	TH400024, MS26, M601W
QFF4007	MS26, M601W
QFF4804	MS26, M601W
QFF4807	MS26, M601W
NOT : See note 12, pg. 4.	
QCH1101	TH400024, TH300024, M601W, MS26
QCH1151	TH400024, M601W, MS26
QCH1202	TH400024, TH300024, M601W, MS26
QCH1207	TH400024, TH300024, M601W, MS26
NOT : See note 12, pg. 4.	

SP LTY 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	LTR S 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	
Range (º)	40ºF to 90ºF	40ºF to 90ºF	40ºF to 110ºF	
ifferential	+/- 3ºF	+/- 3ºF	+/- 2 1/2ºF	
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 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.

SP LTY 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	
Watt Rating	Resistive Inductive		M600THB - Beige thermostat cover with built-in thermometer. For M600 Series stats.
V	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.	
V	25A 1HP, 8.8A		Minimum 50pcs
V	25A 1HP, 8A		Allow 4 weeks.
V	N/A		
Pilot uty	Yes 125VA		
Range (º)	Can be operate in 20 to 140ºF		
ifferential	Accuracy: Within 1.5ºF 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.		