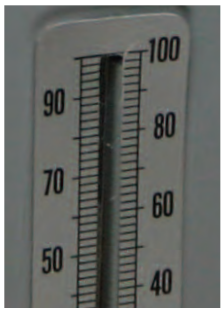
QMARK



Thermostats and Controls

THERMOSTATS

ELECTRONIC DIGITAL LINE VOLTAGE




CATALOG NO.	TH300024	TH36004	TH400024	TH110DPP
Action	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
120V	n/a	n/a	2000 watts	n/a
208V	n/a	n/a	n/a	3000 watts
240V	3000 watts	3600 watts	4000 watts	4000 watts
277V	n/a	n/a	n/a	n/a
Pilot Duty	No	No	No	No
Range (ºF)	40ºF to 85ºF	40ºF to 85ºF	40ºF to 85ºF	40ºF to 85ºF
Differential	Accuracy: Within +/- 0.27ºF	Accuracy: Within 1ºF of setpoint	Accuracy: Within +/- 0.27ºF	Accuracy: Within 1ºF of setpoint
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.

THERMOSTATS

ELECTRONIC DIGITAL LOW VOLTAGE




CATALOG NO.	T8775A1009	T8775C1005	TH5220D1003	LT186F01
Action	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				
120V	n/a	n/a	n/a	22A
208V	n/a	n/a	n/a	22A
240V	n/a	n/a	n/a	22A
277V	n/a	n/a	n/a	19A
Pilot Duty	24VAC	24VAC	24VAC	n/a
Range (ºF)	40ºF to 90ºF	40ºF to 90ºF	40ºF to 90ºF	40ºF to 90ºF
Differential	Accuracy: Within 1ºF of setpoint	Accuracy: Within 1ºF of setpoint	Accuracy: Within 1ºF of set	Accuracy Within 1ºF of setpoint
Features	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

LINE VOLTAGE

CATALOG NO.	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
Amp 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
Range (ºF)	50ºF to 80ºF	45ºF to 75ºF	45ºF to 75ºF	45ºF to 75ºF
Differential	+/- 5ºF	+/- 4ºF	+/- 4ºF	+/- 2 1/2ºF
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 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

LINE VOLTAGE

CATALOG NO.	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
Range (ºF)	50ºF to 80ºF	50ºF to 80ºF	50ºF to 90ºF	40ºF to 85ºF
Differential	Accuracy: Within 3ºF of setpoint	Accuracy: Within 3ºF of setpoint	+/- 2 1/2ºF	+/- 2ºF
Features	One thermostat controls two separate heating circuits and reduces input during light load periods. Second stage activates when temperature drops to approx. 1 1/2ºF 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.

DIGITAL THERMOSTATS AND CONTROLS

HEATER TYPE	2500 SERIES BASEBOARD	HBB/OBD BASEBOARD	LARGE WALL HEATER	SMALL WALL HEATER	SMALL WALL HEATER	REGISTER WALL HEATER	TOE SPACE HEATER
Heater Series	**2500 Series QMKC**	**HBB CBD**	**AWH CWH LFK**	**CWHDSAG CWHDS**	**CRA SED 1235 & 2400**	**GFR, QFG**	**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 / Industrial 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 (18 to 26 volts) See note #6 below.							
T8775A1009	Yes	Yes	No	No	No	No	No
T8775C1005	Yes	Yes	No	No	No	No	No
Electronic transformer relays with built-in transformer.							
LTR1120 LTR208240 LTR1277 LTR2240	Highlighted items are “Subject to Stock Availability”						
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 Contact Information
Phone: 800-452-4328
email: meptechsupport@marleymep.com

	CEILING HEATER	CABINET UNIT HEATER	UNIT HEATER	PLENUM HEATER	ALUMINUM AND STEEL CONVECTORS	COVE RADIANT	CP RADIANT	RP & RS INFRARED HEATERS*	INDUSTRIAL RADIANT
	CDF EFF QCH	MUH IUH	CU900	MSPH	All Series	RCC	CP	RP & RS	M, N, and L
	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 / Industrial 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 (18 to 26 volts) See note #6 below.									
	No	No	Yes	No	Yes	Yes	Yes	†	†
	No	No	Yes	Yes	Yes	Yes	Yes	†	†
Electronic transformer relays with built-in transformer.									
	Yes	Yes	Yes	No	Yes	Yes	Yes	†	†

THERMOSTAT MODEL SELECTION

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

HEATER MODEL	WALL THERMOSTAT
AWH3150	M601W
AWH3180	M601W
AWH4408	M601W
AWH4404	M601W
AWH4407	M601W
AWH4307	M601W
AWH4303	NA
AWH4508	M601W
AWH4504	M601W
AWH4507	M601W
AWH4503	NA
AWH4506	NA
AWH44083	NA
AWH44043	NA
AWH4306	NA
NOTE: See note 9, pg. 4	
CWH1101DSAG	M601W
CWH1151DSAG	M601W
CWH1201DSAG	M601W
CWH1202DSAG	M601W
CWH1207DSAG	M601W
CWH1157DSAG	M601W
CWH1208DSAG	M601W
NOTE: See note 9, pg. 4	
CWH1101DS	M601W
CWH1151DS	M601W
CWH1201DS	M601W
CWH1202DS	M601W
CWH1207DS	M601W
CWH1157DS	M601W
CWH1208DS	M601W
NOTE: See note 9, pg. 4	
CWH3150	M602W
CWH3180	M602W
CWH3404	M602W
CWH3407	M602W
CWH3307	M602W
CWH3408	M602W
CWH34083	NA
CWH34043	NA
CWH3504	M602W
CWH3507	M602W
CWH3508	NA
CWH35083	NA
CWH35043	NA
CWH3203	NA
CWH3206	NA
CWH3153	NA
CWH3156	NA
CWH3303	NA
CWH3306	NA
CWH3403	NA
CWH3406	NA
CWH3503	NA
CWH3506	NA
NOTE: See note 9, 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

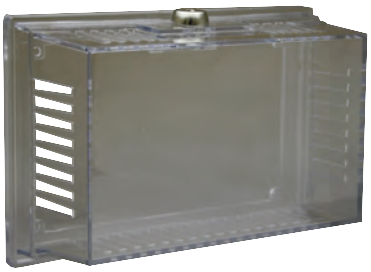
HEATER MODEL	WALL THERMOSTAT
LFK151	M602W
LFK204	M602W
LFK304	M602W
LFK404	M602W
LFK484	M602W
NOTE: See note 9, pg. 4	
SED1012C	TH400024, TH300024, M601W, M611W, T100, WR651
SED1024C	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
SED1512	TH400024, TH300024, M601W, M611W, T100, WR651
SED2024	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
CDF548	MS26, M601W
CDF542	TH400024, MS26, M601W
CDF547	MS26, M601W
CDF558	MS26, M601W
CDF552	MS26, M601W
CDF557	MS26, M601W
NOTE: See note 9, pg. 4	
EFF1500	TH400024, MS26, M601W
EFF3007	MS26, M601W
EFF4008	MS26, M601W
EFF4004	TH400024, MS26, M601W
EFF4007	MS26, M601W
EFF4804	MS26, M601W
EFF4807	MS26, M601W
EFF3003	NA
EFF3006	NA
EFF4003	NA
EFF4006	NA
EFF4803	NA
EFF4806	NA
NOTE: See note 11, pg. 4	
QCH1101	TH400024, TH300024, M601W, MS26
QCH1151	TH400024, M601W, MS26
QCH1202	TH400024, TH300024, M601W, MS26
QCH1207	TH400024, TH300024, M601W, MS26
NOTE: See note 11, pg. 4	

SPECIALTY CONTROLS

CAT. NO.	VOLT	AMPS
LTR1120	120V	22A
LTR208240	208/240V	22A
LTR1277	277V	19A

CATALOG NO.	WR80	WR80EP	WT11A WT12A	LTR SERIES
Action	Snap Action Switch	Snap Action Switch	Positive snap action switch	Electronic Relays
Type	SPST	SPST	SPDT	Microprocessor base design
Amp 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.
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	
Range (ºF)	40ºF to 90ºF	40ºF to 90ºF	40ºF to 110ºF	
Differential	+/- 3ºF	+/- 3ºF	+/- 2 1/2ºF	
Features	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.

SPECIALTY CONTROLS



CATALOG NO.	LTR2240	TC1	M600THW M600THB
Action	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.
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.	
208V	25A 1HP, 8.8A		Minimum 50pcs
240V	25A 1HP, 8A		Allow 4 weeks.
277V	N/A		
Pilot Duty	Yes 125VA		
Range (ºF)	Can be operate in 20 to 140ºF		
Differential	Accuracy: Within 1.5ºF 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.		