

## 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 (°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. 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          | 22A                                                                                                                                                                                      | 22A          |
| 208V         | 22A                                                                                                                                                                                                            | 22A                                                                                                                                                                                                                                | 22A                                                                                                                                                                                             | 22A          | 22A                                                                                                                                                                                      | 22A          |
| 240V         | 22A                                                                                                                                                                                                            | 22A                                                                                                                                                                                                                                | 22A                                                                                                                                                                                             | 22A          | 22A                                                                                                                                                                                      | 22A          |
| 277V         | 18A                                                                                                                                                                                                            | 18A                                                                                                                                                                                                                                | 18A                                                                                                                                                                                             | 18A          | na                                                                                                                                                                                       | na           |
| Pilot Duty   | Yes 125VA                                                                                                                                                                                                      | Yes 125VA                                                                                                                                                                                                                          | Yes 125VA                                                                                                                                                                                       | Yes 125VA    | No                                                                                                                                                                                       | No           |
| Range (°F)   | 50°F to 80°F                                                                                                                                                                                                   | 50°F to 80°F                                                                                                                                                                                                                       | 50°F to 90°F                                                                                                                                                                                    | 50°F to 90°F | 40°F to 85°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. |              |

# DIGITAL THERMOSTATS AND CONTROLS

| HEATER TYPE                                                                                           | 2500 SERIES<br>BASEBOARD                                                         | HBB/OBD<br>BASEBOARD | LARGE<br>WALL<br>HEATER                                                 | SMALL<br>WALL<br>HEATER | SMALL<br>WALL<br>HEATER   | REGISTER<br>WALL<br>HEATER | TOE<br>SPACE<br>HEATER |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------|-------------------------|---------------------------|----------------------------|------------------------|
| Heater Series                                                                                         | 2500 Series<br>BKOC                                                              | HBB<br>OBD           | FRC<br>FRA<br>VFK                                                       | SRADSAG<br>SRADS        | CRA<br>SED<br>1235 & 2400 | GFR, QFG                   | QTS                    |
| Refer to the<br>Notes Section<br>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<br>thermostats are not<br>recommended<br>for this heater | No                      | See model                 | See model                  | Yes                    |
| TH300024                                                                                              | Yes                                                                              | Yes                  |                                                                         | No                      | selection                 | selection                  | No                     |
| TH36004                                                                                               | Yes                                                                              | Yes                  |                                                                         | No                      | chart.                    | 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<br>selection chart for<br>the recommended<br>thermostat       | No                      | See model                 | See model                  | Yes                    |
| MD26                                                                                                  | Yes                                                                              | Yes                  |                                                                         | No                      | selection                 | selection                  | Yes                    |
| M601W                                                                                                 | Yes                                                                              | Yes                  |                                                                         | Yes                     | chart.                    | chart.                     | 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 |                      |                                                                         |                         |                           |                            |                        |
| M600MTP                                                                                               | 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                                                                                               |                                                                                  |                      |                                                                         |                         |                           |                            |                        |
| LT186F01                                                                                              | Yes                                                                              | Yes                  | Yes                                                                     | Yes                     |                           | Yes                        | Yes                    |

Highlighted items are “Subject to Stock Availability”

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† 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: FRC, FRA, and K 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: SRADSAG and SRADS 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. Can accept analog signal of 0-10 VDC.

Note 6: The 1100watt 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: FFCH 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 thermostats 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

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