

Table of Contents

Installation	Features	6
	System Selector Switches	10
	Connecting Wires and Mounting Thermostat	10
	Programming/Setting Clock	12
Operation (Programming)	Personal Program Schedule	15
	Reviewing Program Settings	21
	Manual Override	22
	Backlighting	25
	Trouble Shooting Guide	26
	Wiring Diagrams	27

IMPORTANT

Read the entire installation section of this Owner's Manual thoroughly before you begin to install or operate your Maxitrol Thermostat.

• Remove the mylar label from the display window.

INSTALLATION

2 All installation is normally performed at 2 your thermostat.

PROGRAMMING

3 You can practice programming before installing your thermostat by inserting and connecting the batteries and following the instructions on page 10.

OPERATION

Your Maxitrol Selector is designed to operate with DFM/DFME 14 systems only.

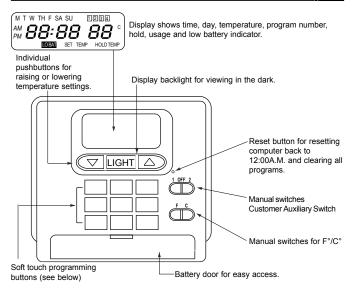
TEMPERATURE RANGE

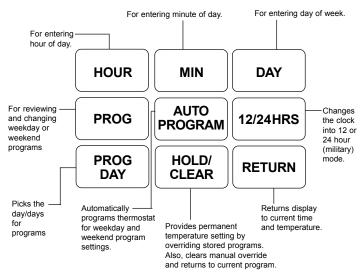
5 Your Selector can be programmed between 40°F and 150°F (5°C and 65°C). However, it will display discharge air temperature from 32°F and 159°F (0°C and 70°C).

BATTERY WARNING

6 When the batteries are low, the "LOW BATT" indicator on the display will flash. When this happens, install new batteries immediately. Once the "LOW BATT" indicator appears, the thermostat will continue to operate for approximately 30 days. (Only alkaline batteries should be used in your thermostat. Rechargeable batteries have different properties which may cause the thermostat to not operate properly. Do not use old batteries.) The batteries should last one year. CAUTION: The batteries are the only source of power used to operate your thermostat. If you do not replace the batteries, the display will dim and your system will operate on the last programmed temperature or the factory default. NOTE: If you plan to be away from the premises more than 30 days, we recommend that you replace the old batteries with new alkaline batteries prior to leaving. Features







Installation

What You Need

This thermostat comes with two #8 slotted screws and two wall anchors for mounting. To install your unit, you should have the following tools and materials.

- Small slotted screwdriver
- Hammer
- Electric drill and 3/16" bit
- Two 1.5V (AA) Size Alkaline batteries

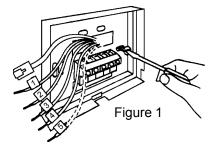
Mount Wallplate & Thermostat

Snap open the wallplate from your thermostat by pressing the release tab on the bottom of the thermostat.

Position wallplate on wall and pull wire with RJ45 connector and any additional wires through large opening. Then level for appearance. Mark holes for plastic anchors provided.

Drill holes with 3/16" bit and gently tap anchors into the holes until flush with wall.

Reposition wallplate to wall, pulling wires through large opening. Insert mounting screws provided into wall anchor and tighten. (See Figure 1.)



Selector Switches

The °F/°C selector switch is located on the front.

°F/°C selector (Fahrenheit/Centigrade)

Your thermostat is set for °F mode from the factory. In order to change to °C mode,

slide the switch to °C.



Connect Wires & Mount Thermostat Cover to Wall Plate

- Insert RJ45 Connector.
- If remote temperature sensor is used: remove existing RTD Sensor from Terminals 1 & 2 and replace with remote temperature sensor wires.
- Be sure to tighten the terminal screws securely, otherwise a loose wire could cause operational problems with your system or thermostat.
- Push excess wire back into hole to prevent interference with mounting of the thermostat cover.
- Customer Choice switches are accessed through terminals 3, 4 & 5. Switch #1 is accessed through terminals 3 & 4. Switch #2 is accessed through terminals 4 & 5, with terminal #4 being common.
- Insert the bottom tab on the thermostat body into the slot at the bottom of the wallplate. Press top of the thermostat body to snap it into the wallplate. (NOTE: Do not force the thermostat onto the wallplate, as the terminal pins may be damaged. If it does not snap properly, the thermostat may not work.)
- Insert the two AA size batteries, observing the polarity marked on the unit.

- The LCD display indicates the current room temperature. If it shows random numbers or partial digits, press the reset button.
- The installation is now complete. Continue reading Owner's Manual for complete operating instructions.

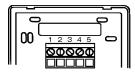
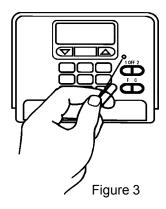


Figure 2



12

Remove mylar label covering display window.

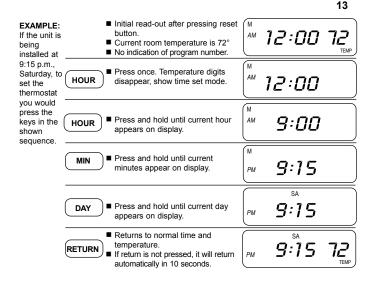
7 If power is interrupted the batteries will keep all programs.

? If "LOW BATT" indicator appears on the display, replace the batteries.

Setting the Time and Day of Week

When you first install the two AA batteries, the thermostat automatically sets the day and time to Monday, 12:00 a.m., shows the current room temperature and is programmed for 68°. Press the reset button after installing new batteries.

The first data you should enter is the current time and day of week. As the keys are pressed, the display will show the data being entered.



Typical Suggested Programs

Your thermostat is capable of holding up to 4 separate programs for each day of the week. You can program all weekdays, Monday to Friday, to the same 4 programs as shown in the table, or each weekday can have a different set of 4 programs. Similarly weekend programs, Saturday and Sunday, can be the same 4 programs or each weekend day can have a different set of 4 programs. A typical set of programs is shown in Table 1.

NOTE: The thermostat program will NOT take effect immediately after programming of your thermostat but at the next programmed time/ temperature change.

Use the temporary manual override feature (described on page 23) to enter your desired temperature setting.

MO to	PROG #	TIME	TEMP IN F° (C°)
FR	1	5:00AM	68 (20)
	2	7:00AM	60 (15)
	3	3:00PM	68 (20)
	4	10:00PM	62 (16)

PROG #	TIME	TEMP IN F° (C°)
1	5:00AM	68 (20)
2	10:00AM	62 (16)
3	3:00PM	68 (20)
4	10:00PM	62 (16)
	1	1 5:00AM 2 10:00AM 3 3:00PM



When your program becomes effective at the next time/temperature setting, the appropriate corresponding program number will appear on the display.

Personal Program Schedule

Before programming or changing the program, use this Personal Program Schedule to determine which times and temperature settings will best satisfy both your comfort and energy requirements. Use a pencil so you can revise your records each time you change your temperature settings.

FOR WINTER

NUMBER	PROGRAM	PROGRAM	PROGRAM	PROGRAM
	1	2	3	4
MONDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP
TUESDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP
WEDNESDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP
THURSDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP
FRIDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP
SATURDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP
SUNDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP

FOR SUMMER

NUMBER	PROGRAM	PROGRAM	PROGRAM	PROGRAM
	1	2	3	4
MONDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP
TUESDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP
WEDNESDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP
THURSDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP
FRIDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP
SATURDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP
SUNDAY	TIME	TIME	TIME	TIME
	TEMP	TEMP	TEMP	TEMP

Programming Your Thermostat

Your thermostat can be programmed in two different ways.

- 1. Auto-program method
- 2. Manual method

Auto-program method

In auto-program method, you can program your thermostat instantly for the entire week by simply pressing "Auto Prog" key once. When this key is pressed, the standard program gets activated and your thermostat is programmed automatically. The standard program is shown in table 2.

If you wish to change this program to suit your life style, you can do so by changing the time and the temperatures of those programs which you want to be different than standard programs. The method is explained in the manual method of programming.

Press

Your thermostat

will be programmed automatically according to Table 2.

AUTO

ROGRA

	Program Number	TIME	TEMP in F°(C°) HEAT
			TILAI
MON	1	5:00AM	68 (20)
FRI	2	7:00AM	60 (15)
	3	3:00PM	68 (20)
	-		· · /
	4	10:00PM	62 (16)
SAT	1	5:00AM	68 (20)
SUN.	2	7:00AM	60 (15)
	3	3:00PM	68 (20)
	4	10:00PM	62 (16)
TABLE 2		10.001 10	0= (10)
IADLE Z			

Manual method

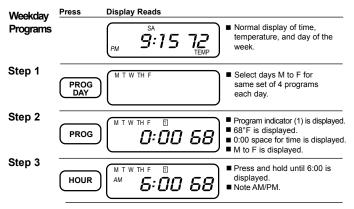
In this method, each program is inserted according to your personal programming schedule.

When the battery is first inserted, the thermostat is programmed for 68°F (20°C). Familiarize yourself with manual programming. The following example demonstrates the manual programming method. You can program or change the program of weekdays, weekends, or individual days.

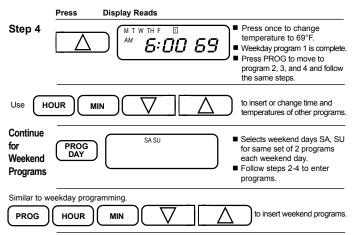
EXAMPLE:

- NOTE: 1) This program time is set in increments of 10 minutes.
 - 2) The program temperature is set in increments of 1° F.

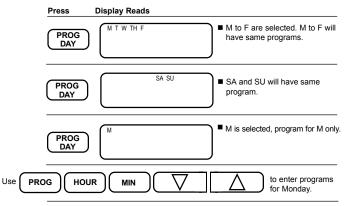
 When setting PM time, make sure the "PM" indicator appears on the display.



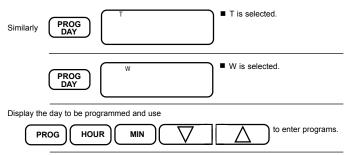
Programming Your Thermostat (Continued)



To program for each individual day separately by a different set of programs, first select day by displaying the day of program, then insert the desired times and temperatures.



Individual Day Programming (Continued)



NOTE: Another approach to programming is to first program all weekdays M through F and SA and SU as same programs. Then, display and change the programs of only those days which will have different programs. NOTE: If program time remains 0:00, that particular program will not be effective; e.g., if Program #2 has time 0:00, the thermostat will jump from Program #1 to Program #3.

Reviewing Programs

You may want to review the programs to see that the settings are correct.



NOTE: The temperatures you have entered will NOT take effect immediately, but at the next program time change. The thermostat is pre-set to 68°F.

If you want a temperature other than 68°F, you must use the manual override feature described below to enter the temperature you want. When your entered program becomes effective, the corresponding program number will appear on the display.

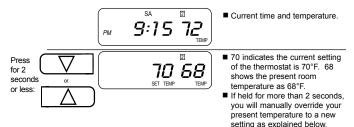
After programming, confirm the new programs by pressing

PROG

If you are programming the thermostat while it is disconnected from the system, move the customer choice switch to the off position before reinstalling the thermostat.

22

To Review the Current Temperature Setting:



Manual Override of Program

If You Want to Change the Temperature Without Affecting Your Program:

Press and hold to raise temperature.



Press and hold to lower temperature.



The new temperature will hold until the next program time is reached.

Temporary Manual Override

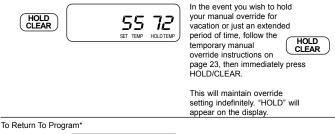
In the following example, the present room temperature is 60°F and we want to raise the temperature to 70°F temporarily until the next program.



- Press arrow to display current set and room temperatures.
- Continue pressing arrow. After 2 seconds, the set temperature digits will blink and begin to increase until the button is released at the desired setting (in this case 70°F)
- Program number flashes.
- Press return or in 10 seconds it will return to showing current time and temperature.

- To display a manual override setting, press either arrow for less than 2 seconds.
- When arrow is released, the display will show current time and temperature.
- Your thermostat is now in manual override mode to 70°F until the next program. Indicator number flashes until the next program time comes into effect.

Permanent Manual Override



(*From temporary or permanent manual override state)

PМ

HOLD

CI FAR

SA

2

9:15 55

NOTE: You can also return the current program by pressing "HOLD TEMP" once in permanent override mode. To return immediately to the current program, press HOLD/CLEAR until program number appears. "HOLD" will disappear if you were in

permanent manual override.

Other Features

Backlighting

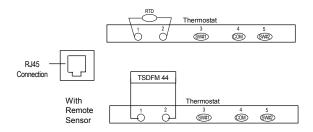
Press LIGHT

Your thermostat comes with an electroluminescent lamp for easy viewing of the display in the dark. To activate press the "light" button between the up and down arrow keys. The display will remain backlit for approximately five (5) seconds. If another button is pushed, the five second timer will reset, and the light will turn off five seconds after the last button is pressed.

12/24 Hour Clock

The 12/24 hour switch is located on the Touch Pad. Pressing the 12/24 button alternates the clock between 12 or 24 hour (military) mode.

Problem	Solution
SCRAMBLED OR DOUBLE DISPLAY (numbers over numbers)	1) Remove clear mylar sticker.
NO DISPLAY	 Check battery connections and batteries. Press reset button once with a small pin and hold in for two seconds.
ENTIRE DISPLAY DIMS	1) Replace Batteries.
PROGRAM DOES NOT CHANGE AT YOUR DESIRED SETTING	 Check that time is set properly to "AM" or "PM." Check that thermostat is not in "HOLD" mode. Check for correct day setting.
ERRATIC DISPLAY	 Press the reset button once with a small pin and hold in for two seconds. Then reprogram.
THERMOSTAT READS HI, LO PERMANENTLY	1) Replace unit.



27



© 2002, Maxitrol Company, 23555 Telegraph Rd., Southfield, MI 48037

Form TDFM 11/03