



DT040 and DT140 Electronic Models

Programming Instructions



The circular keypads are positioned to provide a sequential path for programming. Starting with **Prog.** to select a program, clockwise to to select ON or OFF, then **h** for hour, **m** for minute, and finally **Day** to select day or days of the week. If an input is missing or incomplete, the missing segments will flash when the or program key is depressed. (For example, if no ON or OFF is selected, the ON symbol will flash). The missing entry must be completed before programming can resume. While programming, pressing the **h**, **m**, or **Day** key longer than 2 seconds will cause a rapid roll of the parameter.

- A program consists of: 1. ON or OFF command, 2. Hour and minute, and 3. Day or multiple days on which it is to occur.
- **Res.** is the reset key which clears the time of day and deletes all program information.
- The **±1h** key sets clock time up or down 1 hour for daylight savings time adjustment in the spring and fall.
- Military (24:00 hr.) or AM/PM (12:00 hr.) time may be selected by pressing and holding the **h** key while depressing the **±1h** key.

Note: A flashing display indicates either incomplete data entry or the battery is low. Check to see if day of week and ON or OFF times are entered and check the power supply to the defrost timer.

IMPORTANT: Depress reset key before beginning to set time and program

SETTING TIME AND DAY OF CLOCK

1. Select military (24:00 hr.) or AM/PM (12:00 hr.) time mode by depressing and holding **h** key while pressing **±1h** key to toggle between military and AM/PM. (AM appears in display when in AM/PM mode.)
2. Press and hold down key.
3. If setting the time when daylight savings time is in effect, press **±1h** key once (+1h will appear in display).
4. Set hour with **h** key. If AM or PM does not appear in display, the unit is in military time. See note above to change display.
5. Set minutes with **m** key.
6. Press **Day** key repeatedly to the day of the week. (1 is Monday, 7 is Sunday)
7. Release key, colon will begin flashing. If the days are flashing, the day of the week was not entered (see step 6).

PROGRAMMING

An ON program will initiate a defrost and a OFF program will terminate the defrost. The time period between the ON and OFF will determine the duration of the defrost. ON and OFF times are settable with 1 minute resolution, allowing a defrost duration as short as 1 minute, or as long as several hours. The timer may be configured as a 24 hour unit (defrost schedule repeats every day of the week) or as a 7 day unit where defrost times may be varied each day of the week, or defrosts may be scheduled only on specific days (Defrost only on Mondays, Wednesdays, and Fridays, for example).

1. Press **Prog.** key

1	2	3	4	5	6	7
AM	--	--	--	--	--	--

 will appear in display.
2. Press key, ON symbol will appear.
3. Press **h** to select hour for defrost initiation time.
4. Press **m** to select minute for defrost initiation time.
5. If the program is to occur every day of the week, (daily 24 hour control) ignore **Day** key and press **Prog.** key to advance to next program.
6. If 7 day time control is desired, press **Day** key. 1 2 3 4 5 6 (Mon thru Sat) block of days appears in display. Pressing **Day** key again, 1 2 3 4 5 (Mon thru Fri) appears in display. Pressing **Day** key again, 6 7 (Sat & Sun) appears in display. Pressing **Day** key again, 1 (Mon) appears in display. Repeated presses will cycle through all days of the week, and back to 1 thru 7 (Mon thru Sun). Select day or block of days desired with the **Day** key.
7. Press **Prog.** key


1	2	3	4	5	6	7
AM	--	--	--	--	--	--

 will appear in display.
8. Press key twice, OFF symbol will appear.
9. Press **h** to select hour for defrost termination time.
10. Press **m** to select minute for defrost termination time.
11. If 7 day scheduling was used for defrost initiation, be sure to select the same days for defrost termination time.
12. Press **Prog.** key and repeat steps 2 thru 11 for additional defrost schedules.
13. After programming press key to enter run mode.



REVIEW AND CHANGE OF PROGRAMS

1. To review a program at any time, press **Prog.** key. Programs will be displayed in the sequence they were entered with repeated presses of **Prog.** key.
2. To change a program, select the program to be changed with the **Prog.** key, and enter the new time of day, and/or days of week just as in the programming steps shown above. The old program is overwritten with the new selections. Press **Prog.** to store the new program.
3. To delete an individual program, select the program as in step 1 and press the **m** key and then the **h** key until —:— appears in display. Press either **Prog.** or key until —:— flashes. The program is deleted after a few seconds.



MANUAL OVERRIDE

An override key  allows manual termination of a defrost, manual initiation, lock out of defrost action while servicing, or continuous defrost, if desired.

MANUAL TERMINATION:





To manually terminate a defrost while in the defrost mode (red LED on), press the  key, green LED comes on and  appears in display. The timer will automatically resume normal operation at the next scheduled defrost.

MANUAL DEFROST:





1. To manually initiate a defrost while in the refrigeration mode (green LED on), press the  key, red LED comes on and  appears in display. **IMPORTANT: THE DEFROST MUST ALSO BE MANUALLY TERMINATED. THE TIMER WILL NOT AUTOMATICALLY TIME TERMINATE WHEN A DEFROST IS MANUALLY INITIATED.** (The termination thermostat will terminate the defrost on DT140 models, but with the timer in the override mode, it will not initiate the next timed defrost.)

2. After the manual defrost is complete, reset timer by pressing the  key 3 times until  appears in display.

DEFROST LOCKOUT:

To lock out the defrost, press the  key 3 times until  appears in the display. **NO DEFROSTS WILL OCCUR AT PROGRAMMED TIMES.** To return to normal operation, press  key once until  appears in display.

CONTINUOUS DEFROST: (DT040)

Press  key 2 times until  appears in the display. DEFROST WILL BE CONTINUOUS WITH NO TIME TERMINATION. (On DT140 models, the termination thermostat will terminate the defrost, but with the timer in continuous ON mode, it will not initiate another defrost at programmed times.) To return to normal operation, press  key 2 times until  appears in display.