

Specifications

Electrical Rating

- Voltage: 120-240VAC
- Frequency: 60 Hz

Output

- Type: Relay
- Form: SPDT, SPST
- Rating: Normally closed: 30A @ 240 VAC
Normally open: 40A @ 240 VAC

Timing

- Minimum defrost time: 15 minutes
- Maximum defrost time: 23 hours 45 minutes
- Terminate defrost: Defrost can be terminated by shorting "X to N"

Status LED

- Defrost mode (Red LED)
- Refrigeration mode (Green LED)

Replaces

- Grasslin: 010-0011B, DT040, DT140, DTAV40, DTMV, DTSX
- Paragon: 8041, 8045, 8047, 8141, 8143, 8145, 8245, 8247
- Precision: 6041, 6045, 6047, 6141, 6145

Package Contents

- ICM550 defrost control module
- Bracket mount
- Installation guide
- Terminal block & wiring diagram label sheet
- #8 x 1/2" sheet metal screws (3)
- #6 x 1/2" hex head screws (4)

>>> CAUTION <<<



ELECTRICAL SHOCK HAZARD!

Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before working on a high voltage control.

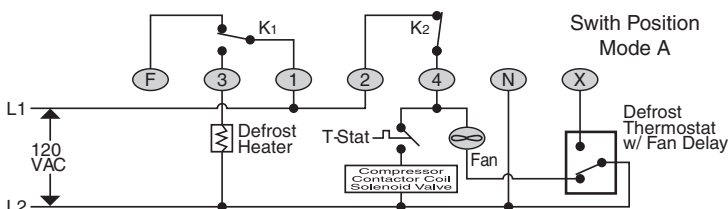
CAUTION!

Installation of the ICM550 shall be performed by trained technicians only. Adhere to all local and national electric codes.

WARNING!

Never turn the dial backward, always turn the dial clockwise to adjust. Do not attempt to touch or adjust the hands of the clock as this may cause permanent damage to the clock.

Default Wiring Diagram



To Set the Current Time

Turn the outer dial clockwise until the inner clock hands point to the correct time. Each tick mark on the outer dial represents 15 minutes. The inner dial is representative of a conventional clock, with the printed "hand" showing the hour and the physical hand showing the minute. The time displayed on the inner dial will always correspond with the time on the outer dial.

The following example shows the clock set to 2:30 PM:



To Set Defrost Time

Decide the amount of defrost time necessary for your environment and the hours which you want defrost to occur. Next, set the switches for each 15 min interval of defrost you require by moving the switch to the outer position. Each switch represents a 15 min interval of defrost and there are 4 intervals per hour.

In this example, the system will begin one defrost cycle at the 5:00 PM, which will last for 45 minutes (3 intervals). The unit will resume normal operation at 5:45 PM.

If multiple defrost cycles are required, please select the appropriate dipswitches to represent each 15 minute interval throughout the 24 hour period where defrost is desired.



Mode Selection Switch

The Mode selection switch is used to set up the condition of relay K2 based on the model you are replacing (See Table 1). When set up in Position A, relay K2 is normally closed and will open in defrost. When set up in position B, relay K2 is normally open and will close in defrost.

Mode "A" Operation

Refrigeration Mode: Green light ON and Red light OFF
(K1 NC, K2 NC)

Defrost Mode: Red light ON and Green light OFF
(K1 NO, K2 NO)

Mode "B" Operation

Refrigeration Mode: Red and Green lights OFF
(K1 NC, K2 NO)

Defrost Mode: Red and Green lights ON
(K1 NO, K2 NC)

Table 1 – Mode Switch Selection Table

Time Initiated & Time Terminated			Time Initiated & Pressure or Temperature Terminated			Time Initiated & Pressure Terminated		Grasslin	SW1
Paragon	Precision	SW1	Paragon	Precision	SW1	Paragon	Precision		
8045	6045	A	8145	6145	A	8245	A	DT040	A
8041	6041	A	8141	6141	A	8247	B	DT140	A
8047	6047	B	8143		B			DTMV	A
								DTSX	A
								DTAV40	A/B per system