ICM550-ENC
Multi-Functional Timer

Applications

- **Commercial defrost timer**
- **Pool & spa circulation pumps**

Specifications

Inputs:
- **Nominal voltage range:** 120-240 VAC
- **Frequency:** 60Hz

Outputs:
- **Type:** Relay

Contact Ratings:
- **Compressor:** [2]&[4]: 30A R, 1HP @ 120 VAC, 2HP @ 240 VAC
- **Electric heat:** [1]&[3]: 40A R, 1HP @ 120 VAC, 2HP @ 240 VAC
- **Fan:** [1]&[F]: 30A R, 1HP @ 120 VAC, 2HP @ 240 VAC

Environmental
- **Operating temperature:** -40 to +131°F
- **Operating humidity:** 0-95%, non-condensing

Mechanical
- **Construction:** Open board (plastic bracket mounted). The ICM550-ENC comes packaged in a NEMA Type 4X rated weatherproof enclosure
- **Mounting:** Vertical or horizontal orientation

Timing
- **Minimum cycle time:** 15 minutes
- **Maximum cycle time:** 23 hours 45 minutes
- **Terminate cycle:** Cycle can be terminated by shorting "X to N"

Status LED
- **Cycle mode:** (Red LED)
- **Normal 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 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.*

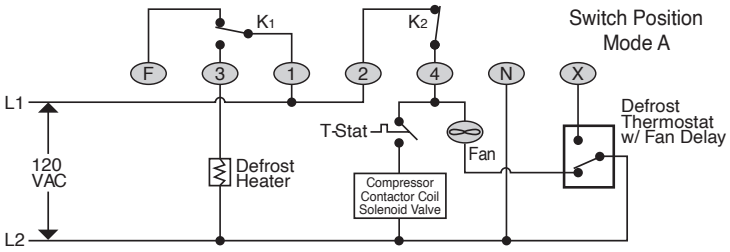
WARNING! *Never turn the dial backward, always turn the dial clockwise to adjust. Do not attempt to touch or adjust the hands of the clock as this may cause permanent damage to the clock.*

Terminal Block

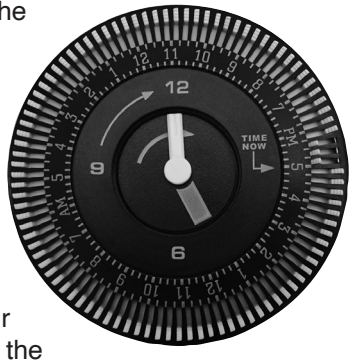
"**USE COPPER WIRES ONLY**"

Tightening torque 15 in-lb.

Sample Wiring Diagram (for defrost application)



To Set the Current Time

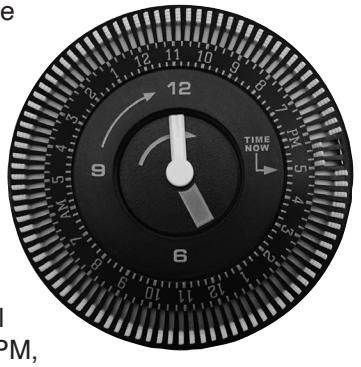


The following example shows the clock set to 2:30 PM.

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 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.

To Set Defrost Time



Determine the appropriate cycle time for your application. Next, set the switches for each 15 minute interval you require by moving the switch to the outer position.

Each switch represents a 15 minute interval and there are 4 intervals per hour.

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

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

c UL us LISTED CLOCK OPERATED SWITCH
E492643

ICM CONTROLS
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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 during the timed cycle. When set up in position B, relay K2 is normally open and will close during the timed cycle.

Mode "A" Operation

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

Time Cycle: Red light ON and Green light OFF (K1 NO, K2 NO)

Mode "B" Operation

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

Time Cycle: Red and Green lights ON (K1 NO, K2 NC)

Table 1 – Mode Switch Selection Table

Time Initiated & Time Terminated		
Paragon	**Precision**	**SW1**
8045	6045	A
8041	6041	A
8047	6047	B

Time Initiated & Pressure or Temperature Terminated		
Paragon	**Precision**	**SW1**
8145	6145	A
8141	6141	A
8143		B

Time Initiated & Pressure Terminated	
Paragon	**Precision**
8245	A
8247	B

Grasslin	SW1
DT040	A
DT140	A
DTMV	A
DTSX	A
DTAV40	A/B per system