

MashMaster™ Fridge Controller DEI-105

SPECIFICATIONS

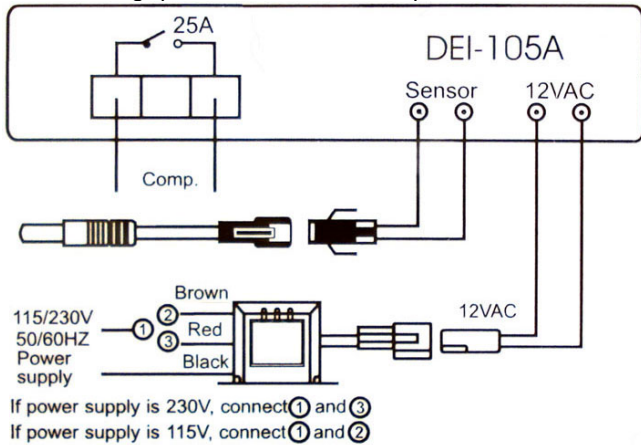
Front panel size: 36x80 ±1mm
Mounted hole size: 30x72 ±1mm
Working Temperature: -5°C ~ +55°C
Relative humidity: <85% (No condensate)
Power Supply: 230VAC±10%
Relay contact capacity: 25A 250VAC Resistance
Power Consumption: 5 Watts Controller only
Sensor: NTC sensor
Probe Materials: 304 Stainless Steel
Probe Fitting: ½ NPT male thread
Probe Stem: 200mm x 9mm diameter
Probe/Sensor Cable length: 3 meters
Display resolution: 1°C
Measuring precision: ±1°C
Temperature display range: -10°C ~ 45°C
Temperature controlling range: -5°C ~ 40.0°C
Temperature Differential: 1°C

INSTALLATION

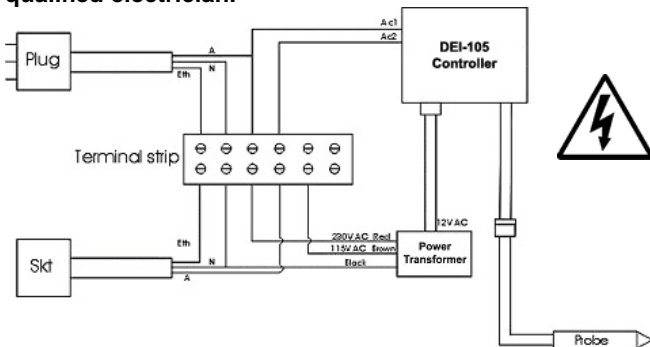
Panel hole size is 71x29 mm. Avoid installing in places subject to strong vibrations, corrosive gages, or humidity. Let air circulate around the cooling vents. Ensure that wires for probe, power supply and compressor are separated and do not cross or intertwine.

CAUTION!

Before wiring, please make sure that power is switched off.



WARNING: Installation should only be undertaken by a qualified electrician.



CHANGE THE SET POINT

1. Press and Hold the **SET** key for more than 3 seconds. The T.Set LED will turn on.
2. To change the set value Press the **▲** or **▼** key within 5 seconds.
3. To save the new set point wait 10 seconds.

CHANGE THE DIFFERENTIAL

1. Press and Hold the **SET** key for more than 3 seconds. The T.Set LED will turn on. Press **SET** key again until the Diff LED turns on.
2. To change the differential Press the **▲** or **▼** key within 5 seconds.
3. To save the new differential wait 10 seconds.

CHANGE THE DEFROST CYCLE

1. Press and Hold the **SET** key for more than 3 seconds. The T.Set LED will turn on. Press **SET** key until the Comp LED turns on.
2. To change the frequency of the defrost cycle Press the **▲** or **▼** keys within 5 seconds.
3. To save the new defrost frequency wait 10 seconds.

CHANGE THE DEFROST DURATION TIME

4. Press and Hold the **SET** key for more than 3 seconds. The T.Set LED will turn on. Press **SET** key until the Diff LED turns on.
5. To change the duration of the of the defrost cycle Press the **▲** or **▼** keys within 5 seconds.
6. To save the new defrost duration time wait 10 seconds.

FUNCTIONS SETTINGS: ADMIN MODE

1. With the unit turned off, Press and Hold the **SET** key and turn the unit on by supplying power. The T.Set LED will turn on.
2. Press the **SET** key to scroll to the function you wish to change. The order of display is as follows:
 - minimum set point "T-Set" LED on
 - temperature calibration "Diff" LED on
 - compressor delay protection "Comp" LED on
 - unit selection °C or °F "Defr" LED on.
3. When the required parameter is show Press **▲** or **▼** adjust the values.
4. If no command is given within 10 seconds the new values are saved and the controller exits the Admin Mode.

ALARMS & ERROR MESSAGES

EE: Internal memory failure. Press any button to return to the default setting and re-supply the power.

EO: Internal sensor calibration failure.

E1: Room sensor failure. Check the connectors to the sensor or replace probe.

ADDITIONAL PARTS REQUIRED FOR INSTALLATION

- 1 x Extension lead cut in half
- 5 x Wire connector, joiner, cap or terminal strip
- 1 x box to mount the unit in. (strongly recommended)
- 3 x Rubber grommets or cable glands for wires to pass through the mounting box (strongly recommended)
- 4 x Cable ties (strongly recommended)

	LED	Function	Setting range		Default	Description
			Min.	Max.		
User Mode	T.Set	Set Point	Min.	40	5°C	Temperature range for setup
	Diff.	Set Differential	2°C	10°C	4°C	Compressor starts when room temperature = T.Set + ½ Diff. Compressor stops when room temperature = T.Set - ½ Diff.
	Comp	Defrost Frequency	0 Hours	99 Hours	6 Hours	How many hours between defrost cycles
	Defr	Defrost Cycle Duration	0 mins	60 minutes	30 minutes	Duration of the defrost cycle when the compressor will not turn on
Admin Mode	T.Set	User's Min Set Point	5°C	10°C	0°C	To limit users minium set point.
	Diff.	Temp Calibration	-8°C	7°C	0°C	To adjust the temperature calibration
	Comp	Compressor Delay Protection	0	15 minutes	3 minutes	To set the delay period between the compressor stopping and starting again.
	Defr	Heater Runtime if controller fails	0	30 minutes	°C	Set the unit of measurement °C or °F