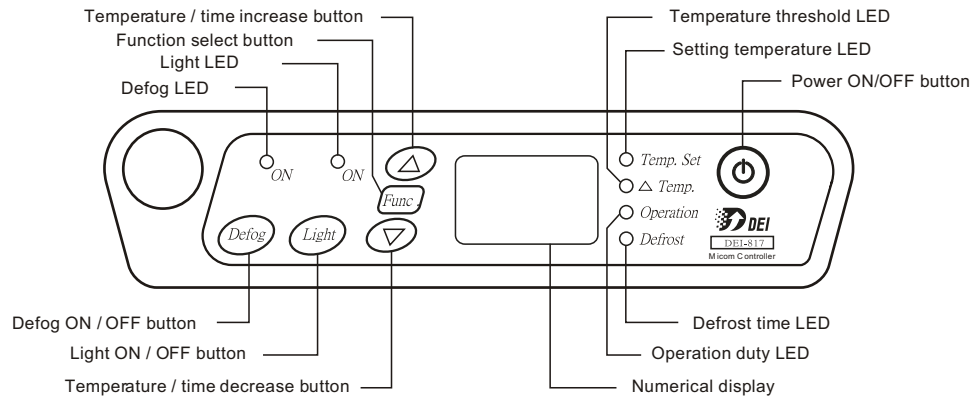


617S/617D OPERATION MANUAL

-Version 03-

Research/Developed · Manufactured by a ISO-9001 Certified company.



Front Panel Operating

1. Power ON/OFF button :

Press button and hold for 3 seconds to start-up the controller based on the preset operating mode and parameters. Press it again for 3 seconds to turn off the system.

2. Light ON/OFF button :

Press button and hold for 3 seconds to turn on or off the illuminating equipment. In model DEI-617D, it serves to switch between upper & lower lights on or off.

3. Defog ON/OFF button :

Press button and hold for 3 seconds to turn on or off the defog heater.

4. Manual/Stop defrost :

Press both & buttons and hold for 3 seconds to enter defrost process which will be terminated automatically when the preset defrost time is up or by pressing again both & buttons.

5. Lock/unlock panel parameters :

In normal operating, press both and buttons for 3 seconds to lock the parameters ("00" is displayed) or to unlock ("33" is displayed).

6. User's parameter setup :

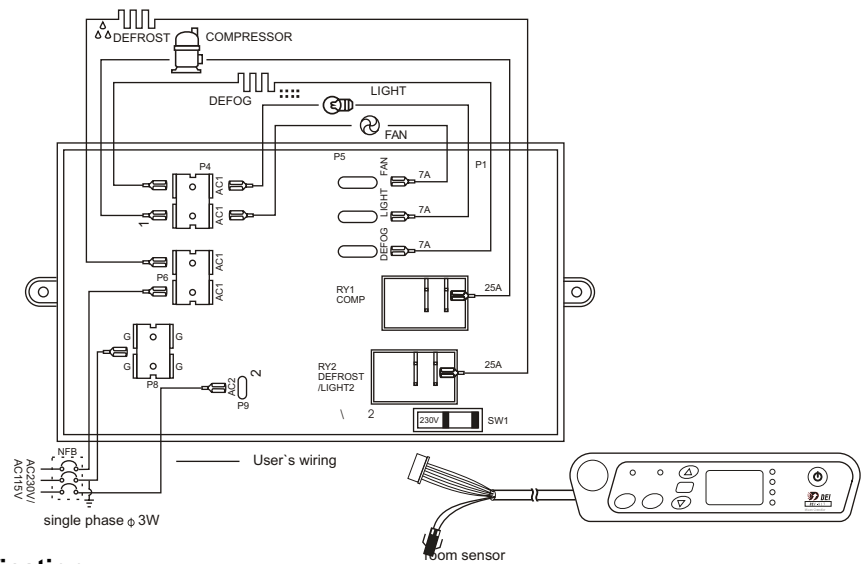
- Press button for 3 seconds to enter the User's Parameter Setup Mode, and the Set Temp. LED is on.
- Press the button again to select sequentially from the 4 functions a/f : Set Temp., Set temp. threshold, Operation duty and Defrost time.
- When the required function is selected, use or button to adjust the value.
- If no more button is pressed within 10 seconds, the system will save the new value and then exit to normal operation.

7. Internal parameter setup :

- Stop the power. Press button followed by re-plug in to enter the Internal Parameter Setup Mode. both Light and Defog LEDs flash and Set. Temp. LED is on.
- Press Button to select sequentially from the 3 functions a/f : Set min. temp. (Set Temp. LED on), Temp. sensor calibration (temp. LED on), Compressor start delay time (Operation LED on)
- When the required function is selected, press or button to adjust the value.
- Press both and buttons to load in the factory default.
- Press button to save the new parameter and exit to the normal operation.

8. Error codes :

- "EE" : Parameter memory failure (Re-plug in and operate as factory default)
- "EO" : Calibrating sensor failure (Return to the factory for repairing)
- "E1" : Probe failure (Check if the sensor is well connected or change the sensor)



Specification :

1. Temp. display range : -45°C~ +45°C Tolerance +/- 1°C

2. Temp. sensor : NTC. PVC or silicon. 1.5m (L)

3. Parameter setup:

A. User's parameters :

- Set temperature : Min. Set~ 40°C . Factory default 5°C (DEI-617) or -18°C (DEI-817).
- Set temp. threshold : 2K~10K (+/- 1°C ~ +/- 5°C) Factory default 4K (+/-2°C).
- Operation duty : 0~99 hours. Factory default 4 hours.
- Defrost time : 0~60 minutes. Factory default 25 minutes.

B. Internal parameters:

- Min. set temperature: -40°C~10°C. Factory default 0°C (DEI-617) or -30°C (DEI-817).
- Temp. calibration: -8°C~7°C. Factory default 0°C.
- Compressor delay protection: 0~15 minutes. Factory default 3 minutes(*1)

C. Factory default (unable to change):

In case of temperature sensor failure, the compressor will operate for 15 minutes and stop for 15 minutes automatically.

4. Compressor operation: The compressor starts operating when room temperature \geq (set temp. +1/2 threshold), and will be off when room temperature \leq (set temp. +1/2 threshold) or in defrosting process.

5. Defrost mode and fan operation :

A. Compressor-off defrost (DEI-617).

- Defrost is performed by the preset defrost time or operating manually. When defrost in progress, Defr. LED flashes, compressor is off, and fan runs continuously.
- After defrost, fan starts (*2) and compressor operates according to the difference between room temp., setting temp. and temp. Threshold.

B. Elec. heater defrost (DEI-817)

- Defrost is performed by the preset operation duty or forced manually. When defrost in progress, the Defr. LED flashes, compressor is off, and heater turns on and fan stops.
- After defrost, fan starts with 2 minutes delay (*2) and compressor with 1 minute delay, operates according to the difference between room temp., setting temp. and temp. threshold.

6. Output contact capacity:

- Compressor contact : N.O. contact 25A/250VA (*3)
- Fan, Light, Defog, Heater contact : 7A/250VAC

7. Power requirement : AC220V/110V +/- 10% single phase 50/60 Hz, 10 Watts (Controller only)

8. Storage : -10~+70°C, RH20%~80% (none-condensing)

9. Operating : -15~+60°C, RH20%~90% (none-condensing)

- Even parameter value as 0 minute, the compressor still starts with 1 minute delay after re-plug in
- Fan's ON or OFF subject to continuous operating. (internal option)
- Compressor with 30A N.O contact plus 10A N.C contact is available..