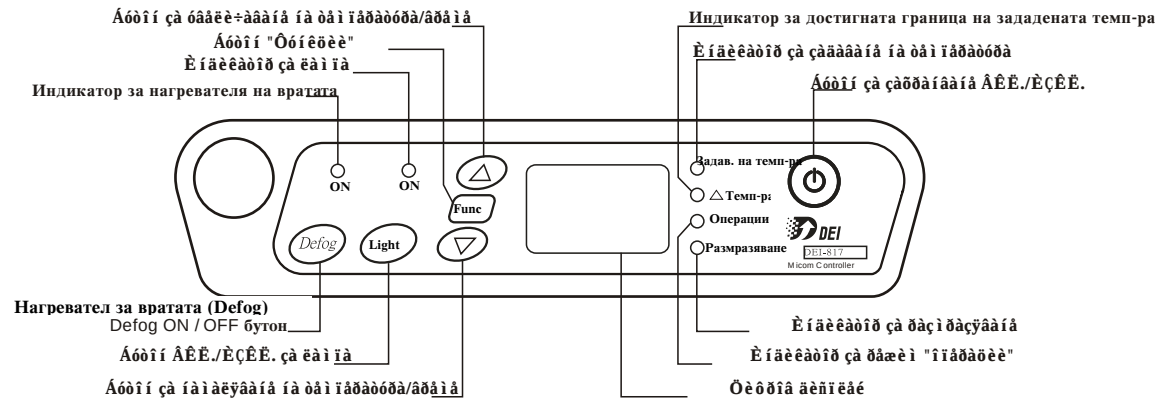


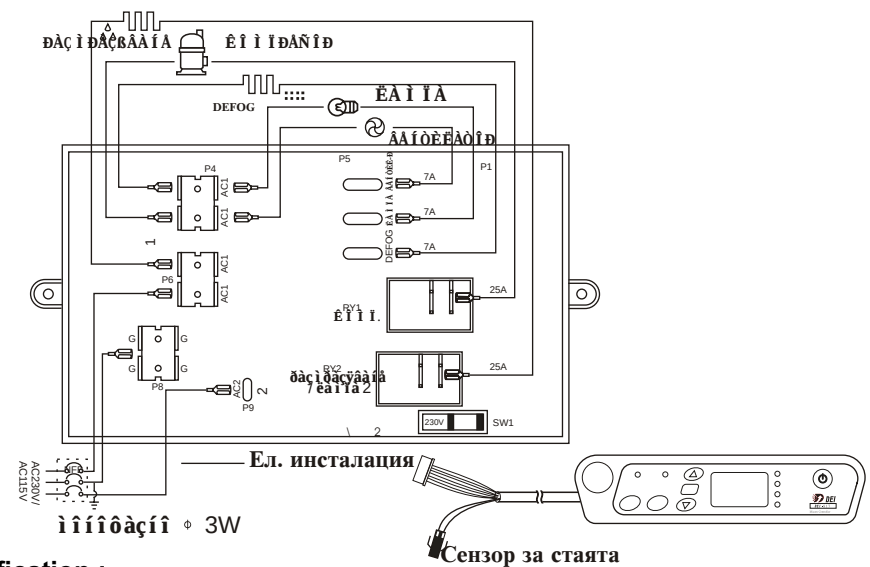
-Version 03-

Research/Developed · Manufactured by a ISO-9001 Certificated 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 Light  and Defog  buttons for 3 seconds to lock the parameters ("00" is displayed) or to unlock ("33" is displayed).
6. **User's parameter setup :**
 - A. Press Func.  button for 3 seconds to enter the User's Parameter Setup Mode, and the Set Temp. LED is on.
 - B. Press the Func.  button again to select sequentially from the 4 functions a/f : Set Temp., Set temp. threshold, Operation duty and Defrost time.
 - C. When the required function is selected, use  or  button to adjust the value.
 - D. 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 :**
 - A. Stop the power. Press Func.  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.
 - B. Press Func.  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)
 - C. When the required function is selected, press  or  button to adjust the value.
 - D. Press both Light  and Defog  buttons to load in the factory default.
 - E. Press Power  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)
 - "E0" : 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℃~ +45℃ Tolerance +/- 1℃
- 2.Temp. sensor : NTC. PVC or silicon. 1.5m (L)
- 3.Parameter setup:
 - A.User's parameters :
 - a.Set temperature : Min. Set~ 40℃. Factory default 5℃ (DEI-617) or -18℃ (DEI-817).
 - b.Set temp. threshold : 2K~10K (+/- 1℃ ~ +/- 5℃) Factory default 4K (+/-2℃).
 - c.Operation duty : 0~99 hours. Factory default 4 hours.
 - d.Defrost time : 0~60 minutes. Factory default 25 minutes.
 - B.Internal parameters:
 - a.Min. set temperature:-40℃~10℃. Factory default 0℃(DEI-617)or-30℃(DEI-817).
 - b.Temp. calibration:-8℃~7℃. 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).
 - a.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.
 - b.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)
 - a.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.
 - b.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:
 - A.Compressor contact : N.O. contact 25A/250VA (*3)
 - B.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℃, RH20%~80% (none-condensing)
- 9.Operating : -15~+60℃, RH20%~90% (none-condensing)
 - *1. Even parameter value as 0 minute, the compressor still starts with 1 minute delay after re-plug in
 - *2. Fan's ON or OFF subject to continuous operating.(internal option)
 - *3. Compressor with 30A N.O contact plus 10A N.C contact is available..