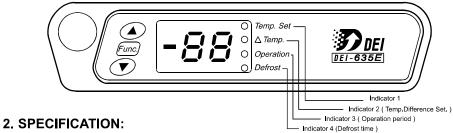
DEI-635E Operation Manual

Version 01

5INSLL00361

1. CAUTIONS:

- 1.1 Before wiring, please make sure that power is switched off to prevent from getting electric shock.
- 1.2 The product should be avoided to install at humid environment.
- 1.3 To prevent controller burning out, please make sure water-proofed procedures undertaken during installation.
- 1.4 Before supplying the power, please always check if the wiring and input power is connected properly.
- 1.5 Please install according to the wiring diagram in order to avoid incorrect wiring.
- 1.6 Please always read this instruction before installation. The product is beyond our warranty if any damage is caused by incorrect wiring.



2.1 Dimension:

- 2.1.1 Control panel size : 40mm (H) \times 170mm (L) \pm 1mm.
- 2.1.2 Mounting size : 33mm (H) \times 140mm (L) \pm 1mm.

2.2 Environment:

- 2.2.1 Operating temp. : -5° C \sim 55 $^{\circ}$ C \rightarrow RH25% \sim 85% (non-condensing)
- 2.2.2 Storage temp. : -10° C \sim 65 $^{\circ}$ C \rightarrow RH25% \sim 85% (non-condensing)
- 2.3 Outputs / Inputs:
 - 2.3.1 Power supply : AC 230 \angle 115V \pm 10% single phase 50/60Hz.
 - 2.3.2 Power consumption: Max. 5W.
 - 2.3.3 Temp. display range: $-40^{\circ}\text{C} \sim 50^{\circ}\text{C}$, tolerance $\pm 1^{\circ}\text{C}$.
 - 2.3.4 Temp.Sensor: NTC,PVC lead, 1.5m in length.
 - 2.3.5 Capacity of Compressor output: 25 (7)A/250VAC Resistance.

3. PANEL OPERATION:

3.1 Start / Stop defrosting manually:

To start or stop defrost is enabled by pressing (A) + (V) simultaneously for more than 3 seconds. If defrost period was set as "0", it will not be effective to start or stop defrosting manually.

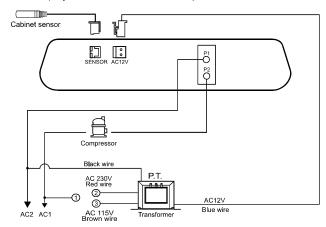
3.2 Keyboard lock:

Press Func + (A) simultaneously for 3 seconds to lock keyboard, LED showing "00".

Press Func. + (A) simultaneously again for another 3 seconds to unlock, LED showing "33". Once the keyboard is locked, only setpoint "tS" can be adjustable.

- - 3.3.1 To change setpoint, press () or () to change setpoint value, indicator 1 will be on.
- 3.3.2 If there are no actions within 5 seconds, controller will save parameters automatically and back to normal operation.
- 3.4 Parameter setting:
 - 3.4.1 Press and hold [Func] for 3 seconds to enter parameter setting, meanwhile, indicator 1 is ON.
 - 3.4.2 After entering parameter setting, press Func to select parameter in sequence: Setpoint adjust (Indicator 1 is ON), Temp. differential setting (Indicator 2 is ON), Operation period (Indicator 3 is ON), Defrosting period (Indicator 4 is ON), Min, setpoint (Indicator 1 & 4 are ON), Temp. calibration (Indicator 2 & 4 are ON), Compressor delay protection (Indicator 3 & 4 are ON), Max. setpoint (Indicator 1. 3 & 4 are ON).

- 3.4.3 To select parameters, press (A) or (V) for setting.
- 3.4.4 If there is no further action within 10 seconds, controller will save parameters automatically and back to normal operation.
- 3.5 Default setting: Switch off power, and press and hold Func. and (A) before re-supplying power, the display will show rS, it means all parameters have returned to default values.



Note: Please connect wire 1 and wire 3 if power supply is AC115V. Please connect wire 1 and wire 2 if power supply is AC230V.

4 PARAMETERS:

Description	Min.	Max.	Default	Indicator
Setpoint adjust	Min. Setpoint	Max. Setpoint	5°C	1
Temp. differential setting	1°C	10°C	4°C	2
Operation period	0 hr.	30 hr.	6 hr.	3
Defrost period	0 min.	60 min.	30 min.	4
Min. setpoint	-40°C	Setpoint adjust	-25°C	1 \ 4
Temp.calibration	-8°C	7°C	0°C	2 \ 4
Compressor delay protection	0 min .	15 min.	3 min.	3 \ 4
Max. setpoint	Setpoint adjust	40°C	25°C	1 \ 3 \ 4

5.COMPRESSOR OPERATION:

- 5.1 As Cabinet temp. ≧ Setpoint+Temp. differential, the compressor will be turned on. As cabinet temp. ≤ Setpoint, the compressor will be turned off.
- 5.2 Compressor delay protection is available from 0~15 minutes. When it is set as "0", compressor will still begin operation with 1 minute delay after power is supplied.
- 5.3 If there is a sensor failure, the compressor will operate as the cycle "15-minute on and 15-minute off". This is a default setting and not adjustable.

6.DEFROSTING OPERATION: Defrosting by terminating operation of compressor.

It begins defrosting when reaching the time= Operation period- Defrost period.

7.ERROR CODES:

- EE: Parameter memory failure. (The parameter will back to factory defaults after power is re-supplied)
- E0: Chip resistor for calibrating sensor failure (Please take it to the factory for repairing.)
- E1: Cabinet sensor failure. (Check if the sensor is well-connected or replace the sensor.)