Instruction Manual of InterHeat Thermostat Controller ITDC10
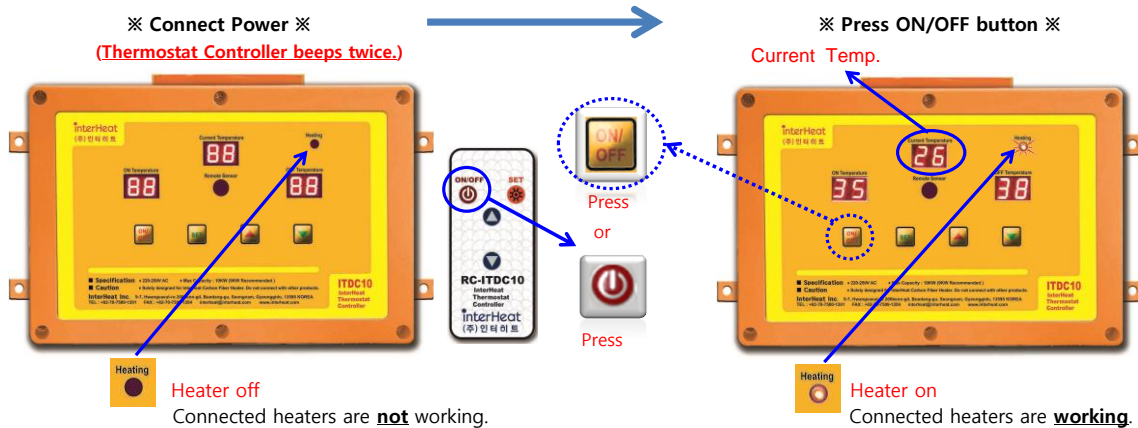
1. Specification

1) Input Voltage : 220V - 240V AC
2) Maximum Load : 9KW (37.5A)
3) Connection with Heater : 2 pcs. of 235V 1500W Heater per Output line x 3 lines = 9000W
(Refer to the Circuit Diagram on the page 2)
4) Temperature Range : -9℃ ~ 99℃ (Unit : 1℃)
5) Temperature Sensor : DS18B20 (Cable Length 10m)
6) Operating Environment : Temperature 1℃ ~ 45℃, Humidity 85% and below
7) Size : 220mm(W) x 185mm(H) x 60mm(D)
8) Other Contents : a Remote Controller (RC-ITDC10) and Anchor Bolts.

★ **Turn power off before beginning installation of Thermostat Controller and Carbon Fiber Heaters.**
★ **Installation and wiring must be done by a qualified electrician.**
★ **The ground wire must be connected.**
★ **Max. capacity (12.5A) per Output line must not be exceeded.**
★ **Solely designed for InterHeat Carbon Fiber Heaters. Do not connect with other products.**

2. Temperature Setting

※ **Connect Power** ※
(Thermostat Controller beeps twice.)

Heating — Heater off
Connected heaters are **not** working.

Press
or
Press

※ **Press ON/OFF button** ※
Current Temp.

Heating — Heater on
Connected heaters are **working**.

1) ON Temperature setting (Heaters will be turned on when Current Temperature is lower than ON Temp.)

ON Temp.

Press Once
(35 Blinking)

Temperature Setting

Press Twice
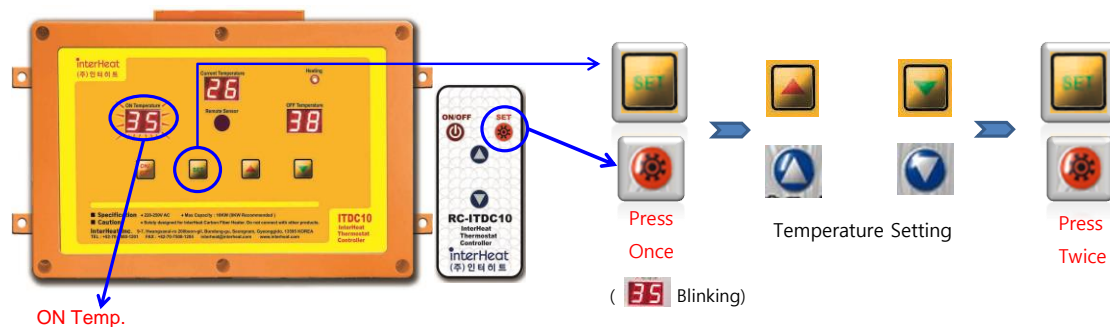
2) OFF Temperature setting (Heaters will be turned off when Current Temperature reaches OFF Temp.)

OFF Temp.

Press Twice
(38 Blinking)

Temperature Setting

Press Once
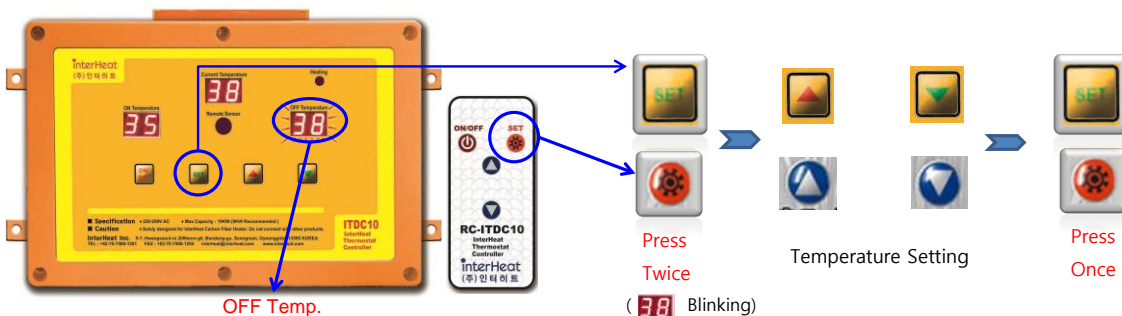
3. Wire Connection

1) Open the cover with a screw driver

Earth Terminal Block

Anchor Bolts
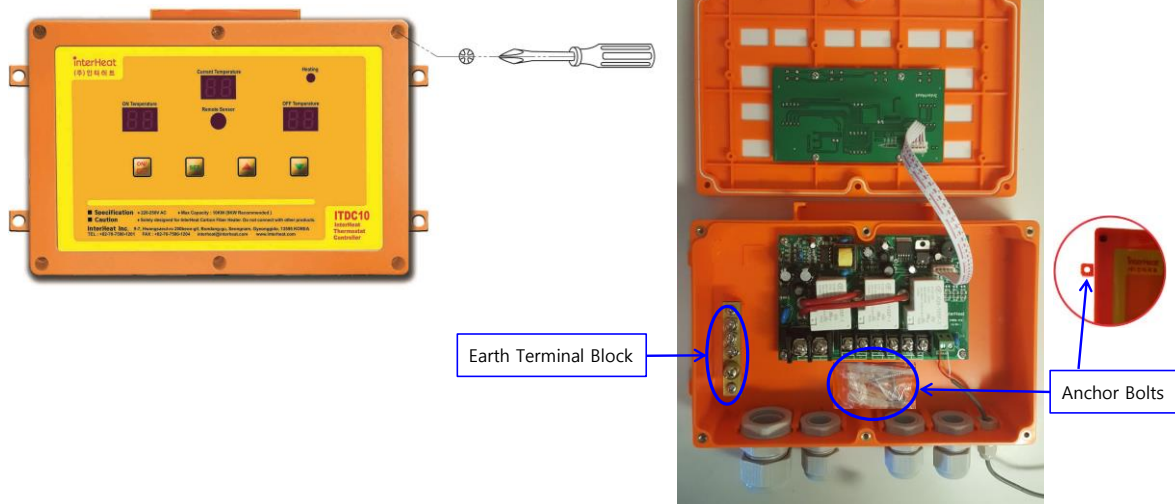
2) Connection Diagram

* Wire Connection of Thermostat Controller and Cabon Fiber Heaters

Input Power

L N E

60A

Molded Circuit Breaker

50A

Earth Leakage Breaker

Max. Recommended Capacity per Output line: 12.5A

Diagram of Terminal Block

L N   L N L N L N

Output 1   Output 2   Output 3

NTC 10K Temperature Sensor

Min. Recommended Wire Specification : Input (8.0mm²) / Output 1, 2, 3 (2.5mm²)

Output — 1500W or 1200W x 2 pcs.

Output — 900W x 3 pcs.

Output — 600W x 5 pcs.
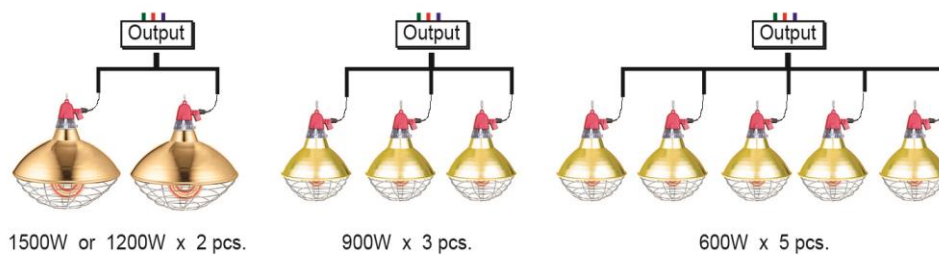
4. Trouble Shooting

* Error code E1

E1 fault indicator light will be turned on in case of sensor malfunction or poor cable connection. When this light is on, find and fix the poorly connected point. Or replace either or both of the sensor and the cable.