



# Operating manual

Mod. : TH-EN

## Program Loading

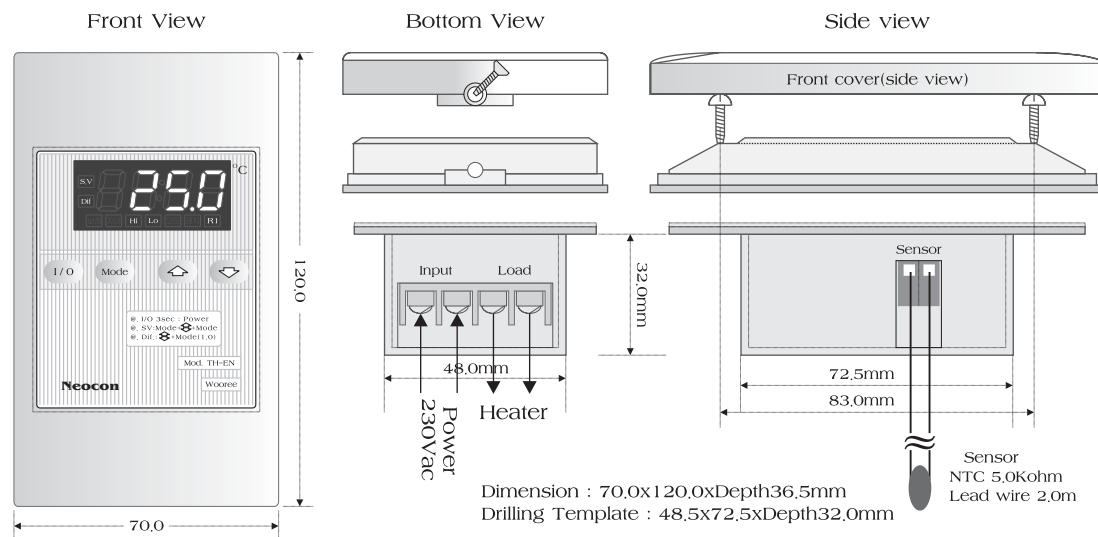
- Power ON/OFF** : If you press "I/O(In/Out)" key for **3** seconds, power will be turned "ON/OFF" and present temperature will be displayed on the display.
- Selection Value** : After checking the lighting of **SV**(Selection Value) by pressing "Set" key, set the selection value by "▲/▼" key. Press "Set" key again to complete the setting.
- Temperature Differential** : After checking the lighting of Dif(Differential) by pressing "Set" key, input the differential value by "▲/▼" key. At that time, the differential value will be applied the above and below of the selection value.  
At least, **0.5°C** is recommended to protect a mechanical system from excessive operation. **±1.5°C** is suitable for heating and is inputted as the initial differential value.
- Sensor** : When the sensor is short, **-Hi/-Lo-** will be displayed on the display.  
At that time, power supply will be cut. Make sure to check the connection of sensors.

When revising all functions, the **LED** will be blinking. After the revision, press "Set" key again and check present temperature mode.(If pressing "Set" key and 10seconds pass, it will return to present temperature mode.)

\*. All specifications are subject to change without notice.

1.	Input Power : 230Vac/50~60Hz/ 10%	Output Power : 230Vac/50~60Hz
2.	Input Power : 100~240Vac, Universal(Optional)	Output Power : 100~240Vac/50~60Hz(Optional)
3.	Output Capacity : Max, Resistive load <b>2.5Kw</b> at 230VAC	Sensor Type : For heater only
4.	Sensor : NTC 5.0 kohm/25.0°C, Undirected	Connection : Relay/20A/230Vac, ON/OFF
5.	Temperature display : LED/4Digits/0.0~99.9°C	Environment range : 0~60°C/less than 85%Rh

### \* Dimension for each parts \*



### Cautions in use

- Please avoid excessive rising of temperature, humidity and impact.
- Please install it upright to prevent water droplet at the end part of sensor.
- Keep it away from high voltage device or power generator and motor.
- Please wait for 5seconds to turning it on again to avoid electric impact.
- Use it between 0~60°C in temperature, 60% humidity around the controllers.
- Please install in safe from strong acids, alkalis, oil, dust & direct rays of sun.
- Please set safe protection at the double circuit when using at expensive appliances (Freezer, Heater and motor).