

# **MBC-800 Baking Controller**

## **User Manual**

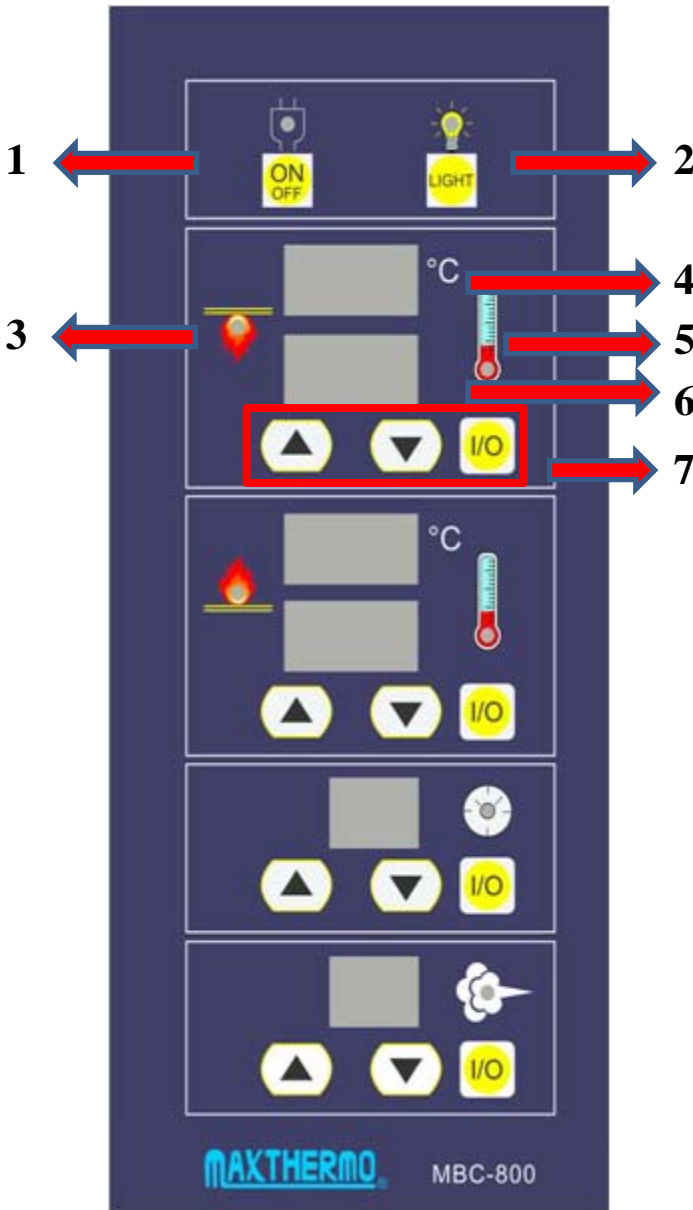
### **1 Features**

- **Top/Bottom Fire Temperature Control Individually**
- **PV/SV Display Window, Easy to Read**
- **Baking Timer Function**
- **Steam Timer Function**
- **Auxiliary Contact Output for Power & Light**

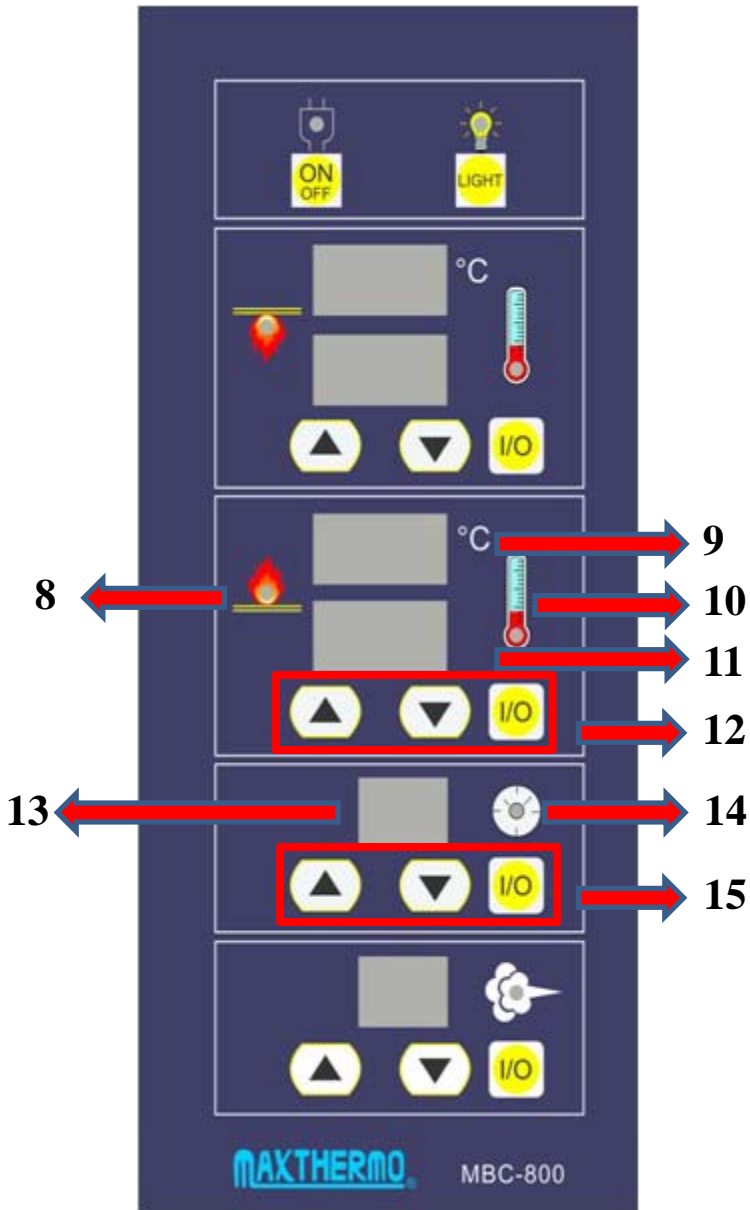
### **2 Specification**

- **Supply Voltage : AC 85 ~ 265V 50 / 60Hz**
- **Sensor Input : Thermocouple K-Type**
- **Control Output : Relay contact SPST 3A/250VAC**
- **Temperature Range : 0 ~ 399 °C**
- **Baking Timer Setting : 0 ~ 99 min**
- **Steam Timer Setting : 0 ~ 15 sec**
- **Accuracy :  $\leq \pm 0.3\%$ F.S**
- **Ambient Operating Temperature : -10~50°C**
- **Ambient Operating Humidity : 5 to 95 % RH (Non condensing)**
- **Dimension : 315 × 140 × 37 ( L × W × H )**

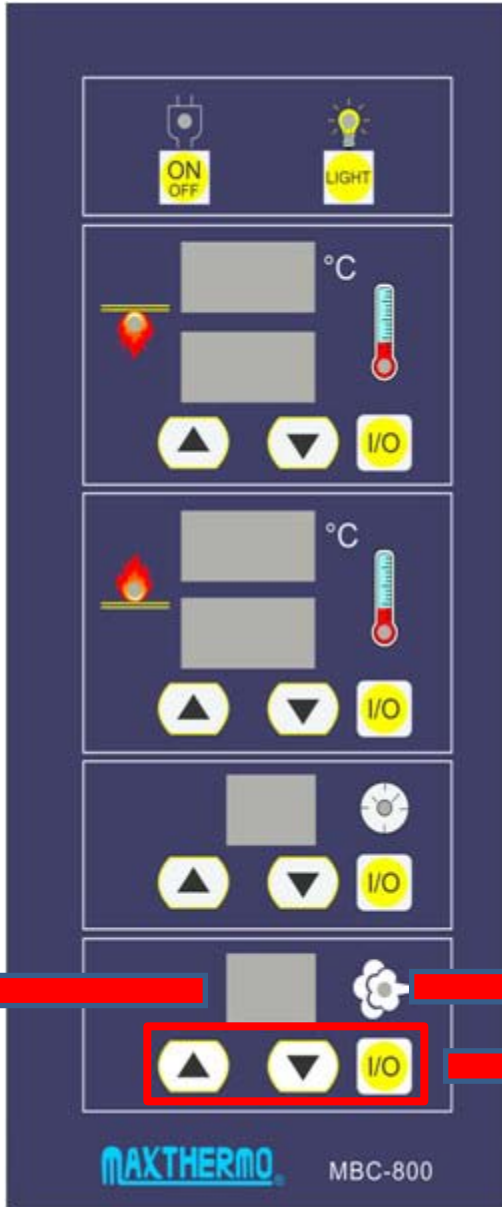
### 3 Panel Description



1		<b>Power Indicator</b>
		<b>Power Switch</b>
2		<b>Light Indicator</b>
		<b>Light Switch</b>
3		<b>Top Fire Output Indicator</b>
4	PV	<b>Top Fire Process Value</b>
5		<b>Top Fire Enable Indicator</b>
6	SV	<b>Top Fire Set Value</b>
7		<b>Top Fire SV Increase Key</b>
		<b>Top Fire SV Decrease Key</b>
		<b>Top Fire Enable Switch</b>



8		<b>Bottom Fire Output Indicator</b>
9	PV	<b>Bottom Fire Process Value</b>
10		<b>Bottom Fire Enable Indicator</b>
11	SV	<b>Bottom Fire Set Value</b>
12		<b>Bottom Fire SV Increase Key</b>
		<b>Bottom Fire SV Decrease Key</b>
		<b>Bottom Fire Enable Switch</b>
13	SV	<b>Baking Timer Set Value</b>
14		<b>Baking Timer Run Indicator</b>
15		<b>Baking Timer Increase Key</b>
		<b>Baking Timer Decrease Key</b>
		<b>Baking Timer Enable Switch</b>





16	SV	Steam Timer Set Value
17		Steam Timer Run Indicator
18		Steam Timer Increase Key
		Steam Timer Decrease Key
		Steam Timer Enable Switch



## 4 Operation

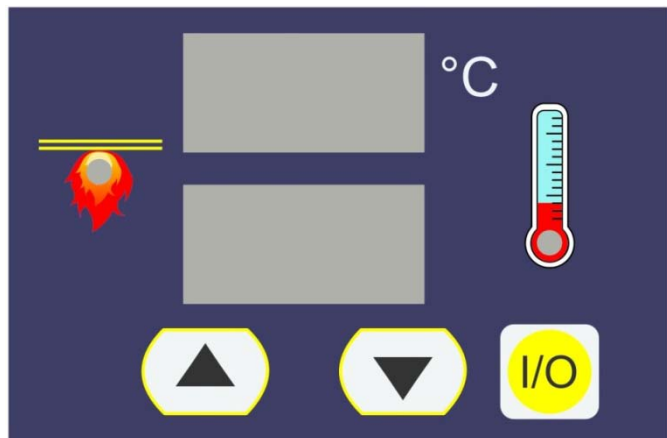


### 4-1 Power Switch






	Press to turn on/off the <b>SWITCH</b> contact output
	Indicator lights when <b>SWITCH</b> contact output is activated

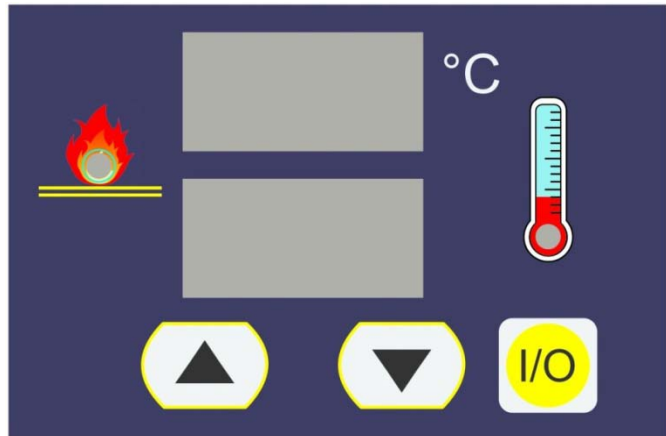
### 4-2 Light Switch

	Press to turn on/off the <b>LAMP</b> contact output
	Indicator lights when <b>LAMP</b> contact output is activated



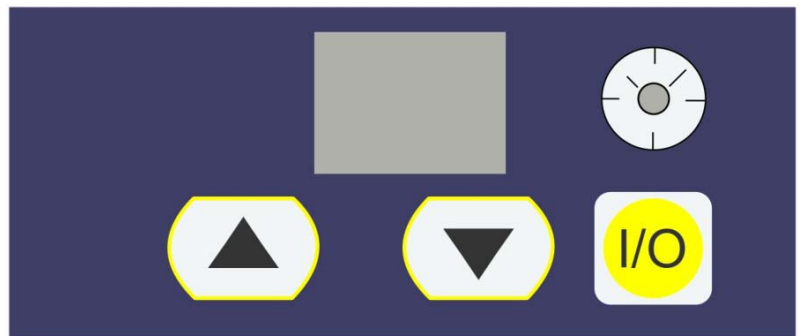
### 4-3 Top Fire Control

	Indicator lights when top fire control is enabled
	Press to increase the top fire set value
	Press to decrease the top fire set value
	Press to enable the top fire control function
	Indicator lights when <b>TOP</b> contact output is activated



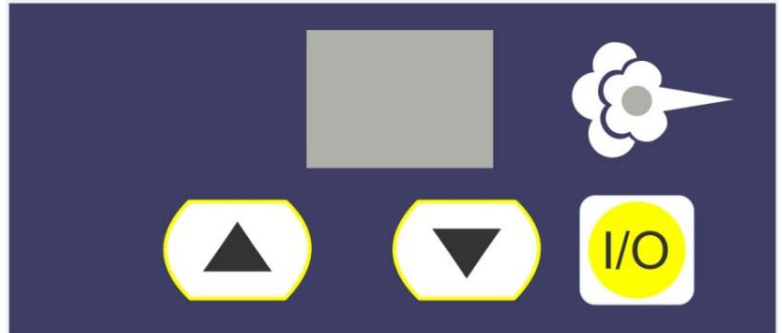
#### 4-4 Bottom Fire Control

	Indicator lights when bottom fire control is enabled
	Press to increase the bottom fire set value
	Press to decrease the bottom fire set value
	Press to enable the bottom fire control function
	Indicator lights when <b>BOT</b> contact output is activated







#### 4-5 Baking Timer Setting

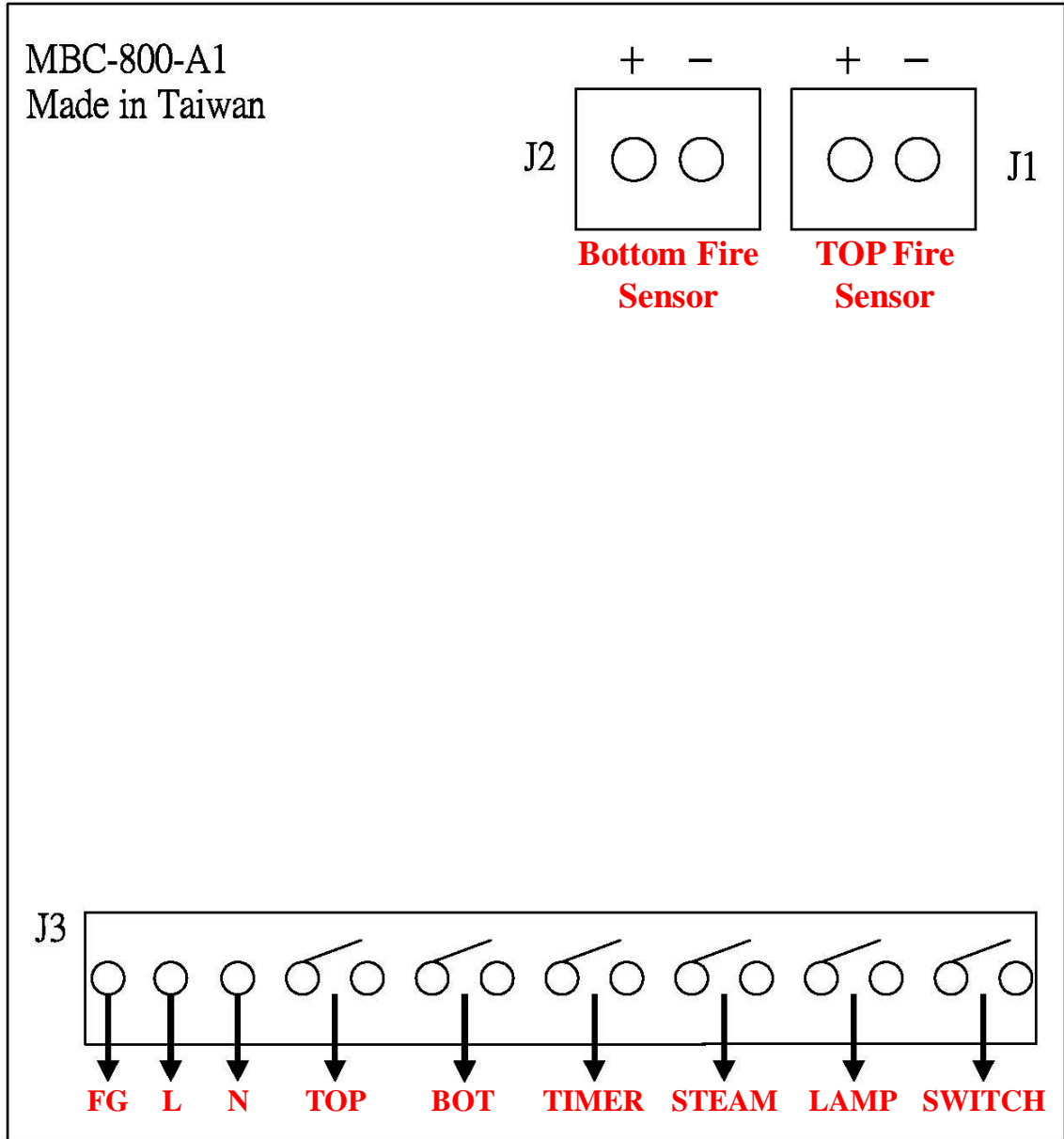
	Press to increase the baking timer set value
	Press to decrease the baking timer set value
	Press to enable the baking timer function
	Indicator flashes when baking timer is activated, <b>TIMER</b> output contact will be turn on when baking time has elapsed



### 4-6 Steam Timer Setting

	Press to increase the steam timer set value
	Press to decrease the steam timer set value
	Press to enable the steam timer function
	When steam timer was enabled, indicator flashes <b>STEAM</b> output contact will be turn on until steam time has elapsed

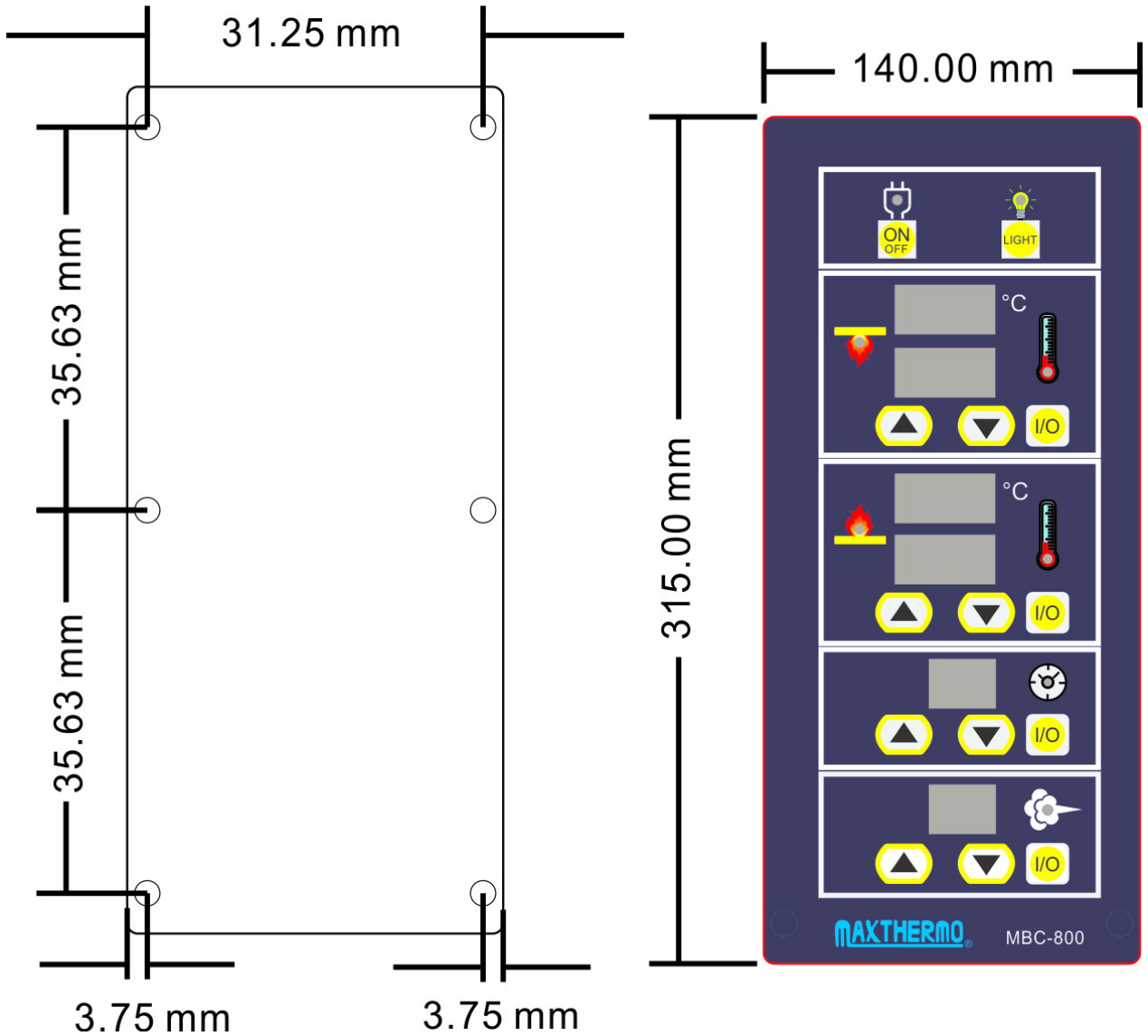
## 5 Wiring Diagram



- |                              |                             |
|------------------------------|-----------------------------|
| 1. FG : Frame Ground         | 6. STEAM : Steam Contact    |
| 2. L、N : Supply Voltage      | 7. LAMP : Lamp Contact      |
| 3. TOP : Top Fire Contact    | 8. SWITCH : Power Contact   |
| 4. BOT : Bottom Fire Contact | 9. J1 : Top Fire Sensor     |
| 5. TIMER : Timer Contact     | 10. J2 : Bottom Fire Sensor |



6 Dimension & Cut-out :



## 7 Error Indication

<b>Error Message</b>	<b>Solution</b>
<b>---</b>	<b>Check wiring, change sensor</b>
<b>uuu</b>	<b>PV exceeds 999°C</b>
<b>nnn</b>	<b>PV under 0°C</b>

## 8 Contact Information

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