

## *BOC-200*



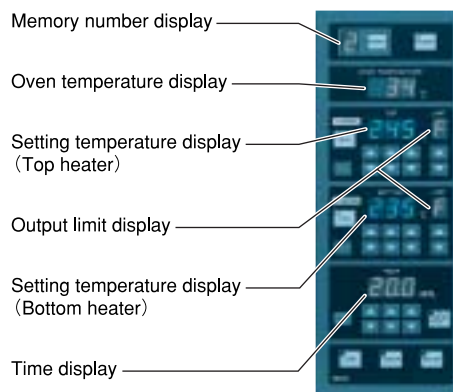
- 2 channel temperature control for top and bottom heaters for use in commercial ovens (e.g. for bread baking)
- Timer function
- 8 process (temperature, time) memory function
- Large LED displays indicating oven temperature, top and bottom heater temperatures and timer
- Built-in buzzer informs of end of baking.
- When power failure occurs, the setting data is backed up in non-volatile IC memory.

## Model name

Relay contact	BOC-210-2R/E BOC-220-2R/E	ON/OFF PD
Non-contact voltage	BOC-210-2S/E BOC-220-2S/E	ON/OFF PD

## Standard specifications

Rated scale	0 to 400°C	
Input	Thermocouple K, External resistance: 100Ω or less	
Input channels	2 channels (Top and Bottom heater temperature)	
Processing time	10s to 99min 50s	
Indication	Indicating accuracy: Temperature : Within ±0.5% of full scale ±1 digit Time : Within ±0.1% of setting time	
	Displays: 7-segment Green and Red LED display 3-digit and 1 digit Size: 14.3×8mm (H×W)	
Control action	Setting accuracy: Within ±0.5% of full scale ±1 digit	
	ON/OFF action or PD action can be selected by DIP switch.	
	ON/OFF action Dead band: 0 to 10°C (Changeable)	
Main output	PD action Proportional band(P) : 2.5%	
	Derivative time (D) : 32s	
	Proportional cycle : 1 to 120s (Changeable)	
	Relay contact 1c×2 (BOC-220-2R/E) Control capacity, 3A 220V AC (resistive load) 1A 220V AC (inductive load cos φ = 0.4)	
Event output	Non-contact voltage 12±3%V DC (BOC-220-2S/E) 40mA max.	
	Relay contact 1a×5 (Lighting, Buzzer, Boiler, Steam, Fan) Control capacity, 3A 220V AC (resistive load) 1A 220V AC (inductive load cos φ = 0.4)	
Supply voltage	100 to 240V AC, 50/60Hz Allowable voltage fluctuation: 85 to 264V AC	
Insulation resistance	10MΩ or greater at 500V DC (except S/E output terminals)	
Dielectric strength	Between Input terminal and Power terminal : 500V AC for 1 min.	
	Input terminal and Ground terminal : 500V AC for 1 min.	
	Power terminal and Ground terminal : 1.5kV AC for 1 min.	
	Output terminal and Power terminal : 1.5kV AC for 1 min. (R/E)	
	Output terminal and Ground terminal : 1.5kV AC for 1 min. (R/E)	
Ambient temperature	Output terminal and Power terminal : 500V AC for 1 min. (S/E)	
	Output terminal and Ground terminal : 500V AC for 1 min. (S/E)	
Ambient humidity	0 to 55°C	
Power consumption	35 to 85% (non-condensing)	
Weight	Approx. 15VA	
Mounting method	Approx. 1.6kg	
Panel	Flush	
Rear cover	Membrane sheet	
Options	Steel	
	PC	Program control function
	RM	Remote input
	AH	High limit alarm output
M15	15 files of memory function	

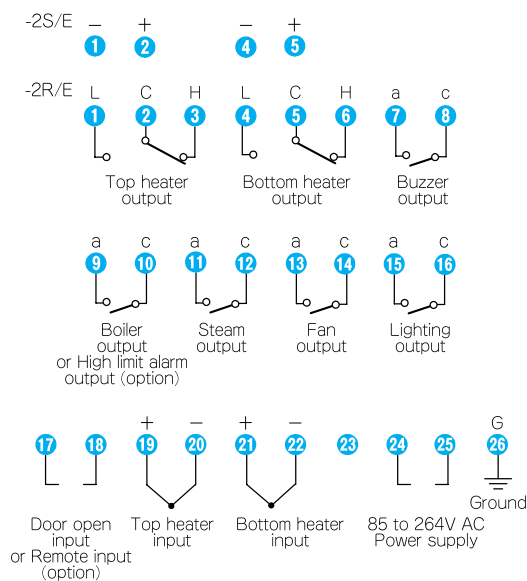


140×310×88mm (W×H×D)

## Useful functions

- Memory function : 8 files (standard) and 15 files (option M15) of setting value can be memorized.
- Output limit : 11 levels of output high limit value, ranging between 0-100%, are selectable.
- PV correction : The indicated values of top and bottom heaters can be shifted respectively in the range -30 to 30°C.
- Steaming time : The steaming time can be set in the range 0.1 to 99.9 seconds.
- Program control : 8 processes can be set to 8 menus respectively (option PC)

## Terminal arrangement



- To ensure safe and correct use, thoroughly read and understand the manual before using this instrument.
- This instrument is intended to be used for industrial machinery, machine tools and measuring equipment. Verify correct usage after consulting purpose of use with our agency or main office. (Never use this instrument for medical purposes with which human lives are involved.)
- External protection devices such as protection equipment against excessive temperature rise, etc. must be installed, as malfunction of this product could result in serious damage to the system or injury to personnel. Also proper periodic maintenance is required.
- This instrument must be used under the conditions and environment described in the manual. Shinko Technos Co., Ltd. does not accept liability for any injury, loss of life or damage occurring due to the instrument being used under conditions not otherwise stated in the manual.

## Caution with respect to Export Trade Control Ordinance

To avoid this instrument from being used as a component in, or as being utilized in the manufacture of weapons of mass destruction (i.e. military applications, military equipment, etc.), please investigate the end users and the final use of this instrument. In the case of resale, ensure that this instrument is not illegally exported.

- This catalog is as of December 2004. Specifications and external appearance are subject to change without prior notice.
- If you have any inquiries, please consult our agency or with us directly.