

OPERATING MANUAL



BIOLOGICAL INDICATOR INCUBATOR

BIBI-201





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1 Introduction

biological indicator incubator is best designed instrument which is microprocessor-controlled. It is widespread used for samples of the preservation and reaction, DNA amplification, foreseeability of electrophoresis and so on. Please do read this operation manual carefully before using the instrument.

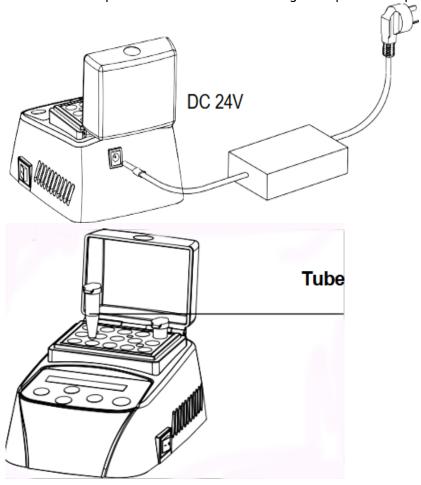
1.1 Instrument Content

biological indicator incubator - 1set Power Adapter - 1pieceOperation Manual - 1piece

1.2 Structure

1.3 Installation

- 1.3.1 Put the instrument on the working table reposefully.
- 1.3.2 Connect power and instrument through the power adapter. Power voltage should during 100-240V \sim



- 1.3.3 Turn on the power switch on the right side. The incubator runs the program to the setting temperature automatically. Heating always costs 15 minutes.
- 1.3.4 When it achieves the setting temperature, put the tubes into the

2. Specification

Туре	BIBI-201	
Power Input	DC24V	
Power	60 W	
Temperature Range	RT+5°C ~100°C	
Timing Range	1min - 999min or 1sec - 999 sec	
Temp.Control Accuracy	≤± 0.5°C	
Display Accuracy	0.1°C	
Heating Time (from 20°C to 100°C)	≤15min	
Ambient Temperature	5°C~35°C	
Dimension (WxDxH)	110mm×156mm×92mm	
Net Weight	1.0Kg	

3. Safety Warning

 $bigspace{1}{1}$ The incubator is a normal and an indoor using instrument.

Read operation manual carefully before operation. Only the expert of wiring equipment can operate this instrument.

The operator should not open or repair the instrument by himself. Otherwise, the instrument will lose the qualification of repair guarantee or cause accidents. The company will repair the instrument based on warranty description.

The instrument should be put in the place where of low tem perature, little dust, no water, no sunshine or hard light, and of good aeration, no corrosively gas or strong disturbing magnetic field, and far away from central heating, camp stove and other hot resource. Do not put the instrument in wet and dusty place.

Main switch is on the rear of the device. Push "I" to power on the device, and push "O" to power off the device.

Power input interface is on the rear of the instrument. Power voltage input is

DC12V/24V. Input is anode, outer ring is cathode.

2 Power off when operation finished. If long period do not use the instrument, pull off the connector plug, cover a cloth on the instrument to prevent from dust.

4. Operation Guide

4.1 Key Function

START/STOP----Start or stop the operation program PROG.-----Select operation program

------Set Temperature or Timing value
------Enter value set or move cursor

4.2 Programming

Press "PROG.", select option program, e.g. P2. Press " → " to enter temp setting. Press " → " to move cursor. Press " ▲ " or " ▲ " to set timing. Two segments could be set in each program. " ■ " indicates temp. or timing of segment 1. " ■ " indicates temp. or timing of segment.

P2 37.0 003min ■ Temp. and Timing of Segment 1

P2 45.0 006min ■ Temp. and Timing of Segment 2

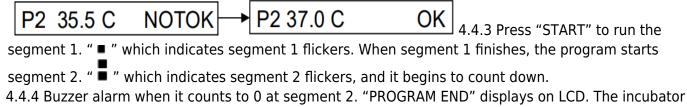
4.3 Time Unit Changing

Press " 2 seconds under timing setting, timing unit alternatively changes between min and sec.



4.4 Program Start and Stop

- 4.4.1 Press "PROG.", nine preset programs P1,P2,P3,P4,P5,P6,P7,P8, P9 could be selected.
- 4.4.2 When power on, the temperature rises to setting temperature of segment 1 automatically. It display "NOTOK" when heating while it display "OK" when it achieves the setting temperature.



PROGRAM END

Press any key to return

P2 43.3 NOTOK

keeps the temperature of segment 2.

Press any key to return the operating interface. It turns to the setting temperature of the current segment. When it achieves, "OK" is displayed on LCD. Press "START" to run the program again. 4.4.5 Press "START/STOP" continuously for 1 second, program stops, timing ends.

5. Maintenance

Please make periodic cleaning for wells in block with alcohol mull. Use mull with clean paste to clean surface of the instrument.

Power off before cleaning the instrument. It is forbidden de canting cleaning fluid into the well of block.

4.5 Temperature Calibration

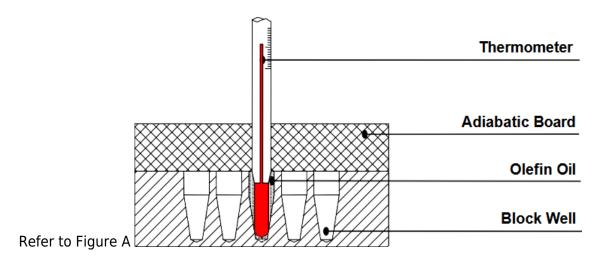
If there is deviation between the actual temperature and the displayed temperature, you can calibrate as follows.

NOTICE: The instrument uses two temperatures adjustment to ensure its veracity. It is linearly adjusted on 40C, and 100C. The temperatureveracity will be within ± 0.5 C after the double temperature adjustment.Both the circumstances and the block temperature should be lower than 35C when calibration.

Notice: The temperature of the instrument has been adjusted before it is sold. Do not use this function self-will

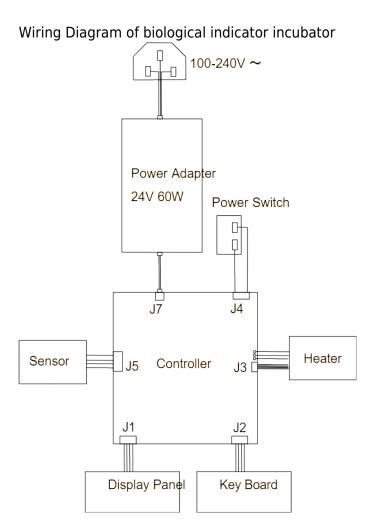
Adjustment Methods

- 4.5.1 Start up the instrument, it enters waiting interface.
- 4.5.2 Inject olefin oil into one of the cone-shaped wells. Put a thermometer into this well (the precision of the thermometer should be 0.1. The temperature ball should be absolutely immerged into the coneshaped well). Heat insulation material is needed on the block to separate it from the circumstance.



6. Failure Analysis and Trouble Shooting

Appendix 1



PACKING LIST

seria I	description	type	quantit y
1	Instrument	BIBI-201	1set
2	Power Adapter	DC24V 60W	1piece
3	Operation Manual		1piece
4	Warranty Card		1piece



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