Intelligent Heat Controller

User's Manual

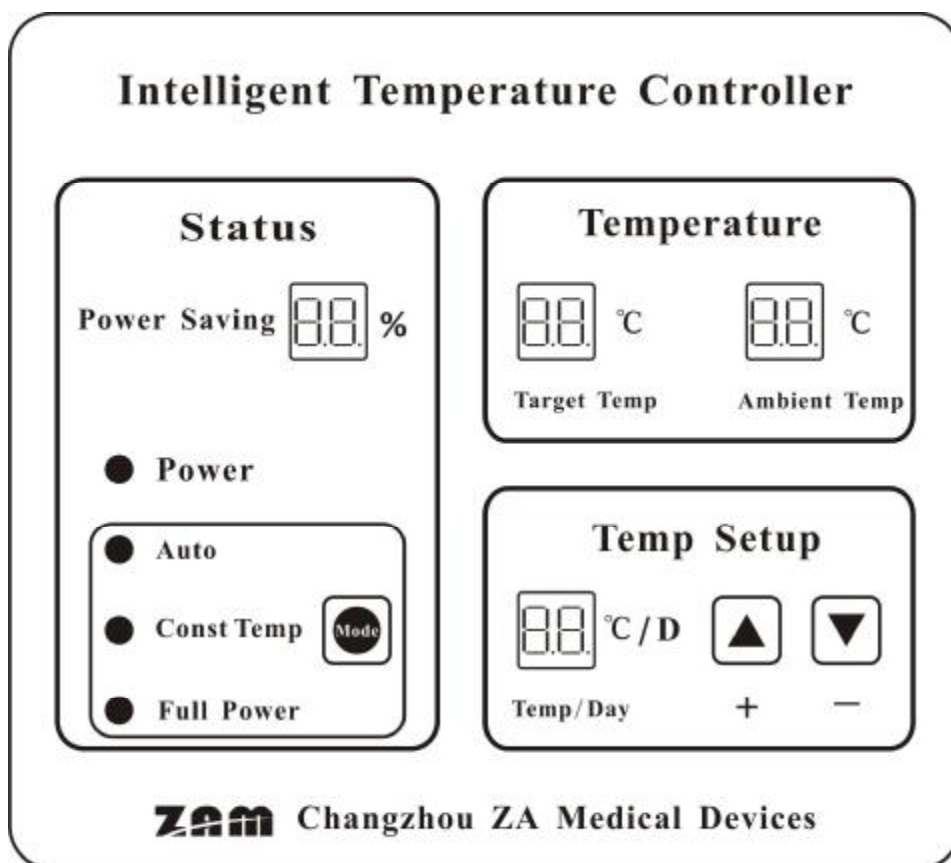**ZA Medical Devices, Changzhou, China**

1. FEATURES

1. Automatic unattended mode, automatically adjust the optimum temperature according to the number of piglets born days.
2. Intelligent frequency conversion technology for power saving, up to 70%.
3. Both infrared heat lamps and heat mats can be controlled.
4. Temperature control is accurate by using a microcomputer chip.
6. Automatic over-temperature cut off.
7. Automatic power-down protection. The information is restored after power-on.

2. STRUCTURE

1. **Board Panel**

1. Press Key

Power Switch：Turn on/off power.

Mode ：Selection of operation mode：(Constant Temperature Mode, Auto Unattended Mode, Full Power Mode).

▲ ：Increase pre-set temperature (for Constant Temperature Mode)

▼ ：Decrease preset temperatere (for Constant Temperature Mode)

2. LED Display

Display the preset temperature, target temperature, environment temperature, and power-saving percent (the preset temperature will change to number of born day under Auto Unattended Mode).
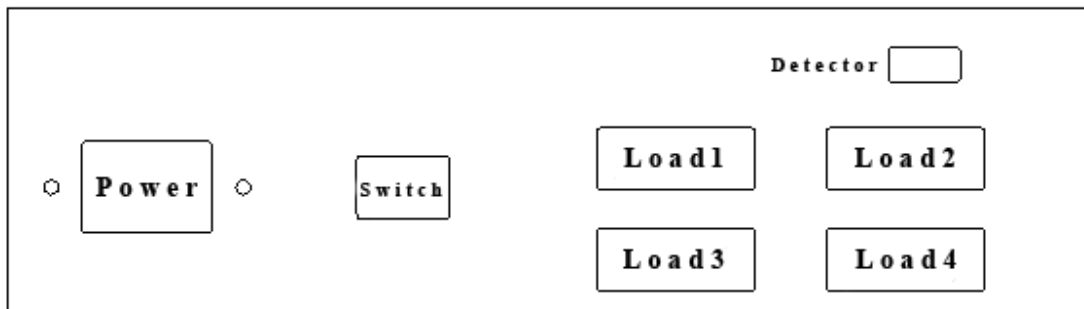
3. Indication Light

Power Indicator：Power on

Indicator of Constant Temperature：Under Constant Temperature Mode

Indicator of Auto Unattended: Under Auto Unattended Mode

Indicator of Full Power: Under Full Power Mode

4. Side Board

Power：220VAC Input

Switch：Turn on/off power

Load1：Heat lamp or heat mat input

Load2：Heat lamp or heat mat input

Load3：Heat lamp or heat mat input

Load4：Heat lamp or heat mat input

Detector：Infrared thermal sensor input

4. Operation

There are three operation mode selected by [Mode] : Constant Temperature Mode, Auto Unattended Mode, and Full Power Mode.

Constant Temperature Mode：press " ▲ " and " ▼ " to preset temperature, and the target temperature will be kept around the preset temperature.

Auto Unattended Mode: The target temperature will be gradually and evenly decreasing

from 34℃ on day 1 to 28℃ on day 30 when under this mode.

Full Power Mode: The controller will be working under full power (no feedback control) and the power saving display will show 00%。
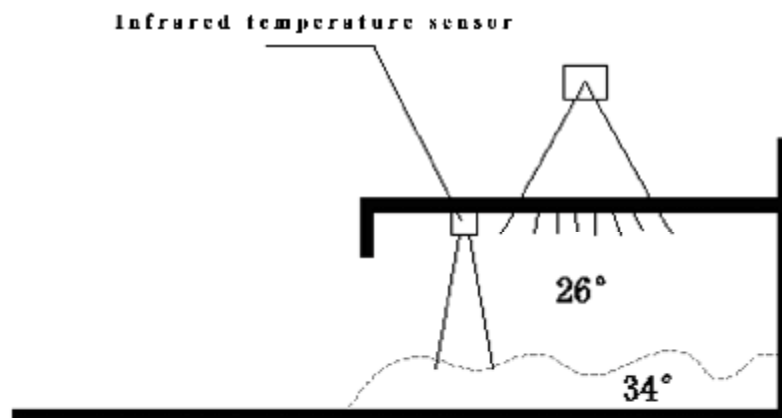
5. Technical Specification

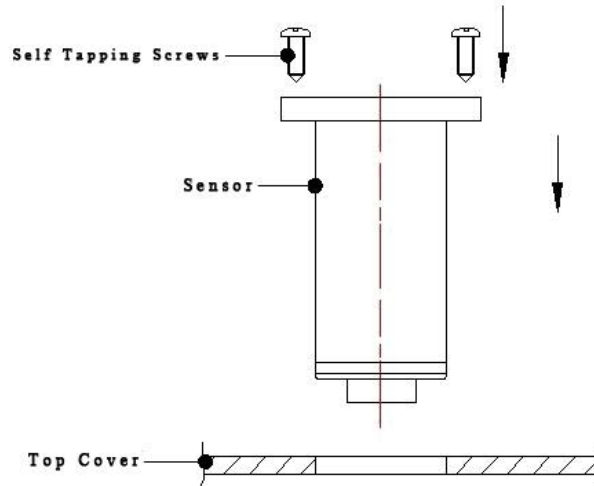|	
Range of Environment Temperature：	-10℃ ~ 50℃
Relative Humidity：	20% ~ %85
Voltage Input：	180~265 VAC，50HZ
Working Voltage：	180~265 VAC，50HZ
Maximum working power：	1200W
Working Currency：	6A
Temperature accuracy：	1℃
Temperature Control Error：	±2℃
Range of Preset Temp：	25℃ ~ 50℃
Range of Temperature Detecting:	0℃ ~ 80℃
Size (mm):	214x190x76

6. Accessories

Infrared Temperature Sensor，Power Plug，Communication Wire, Manual。

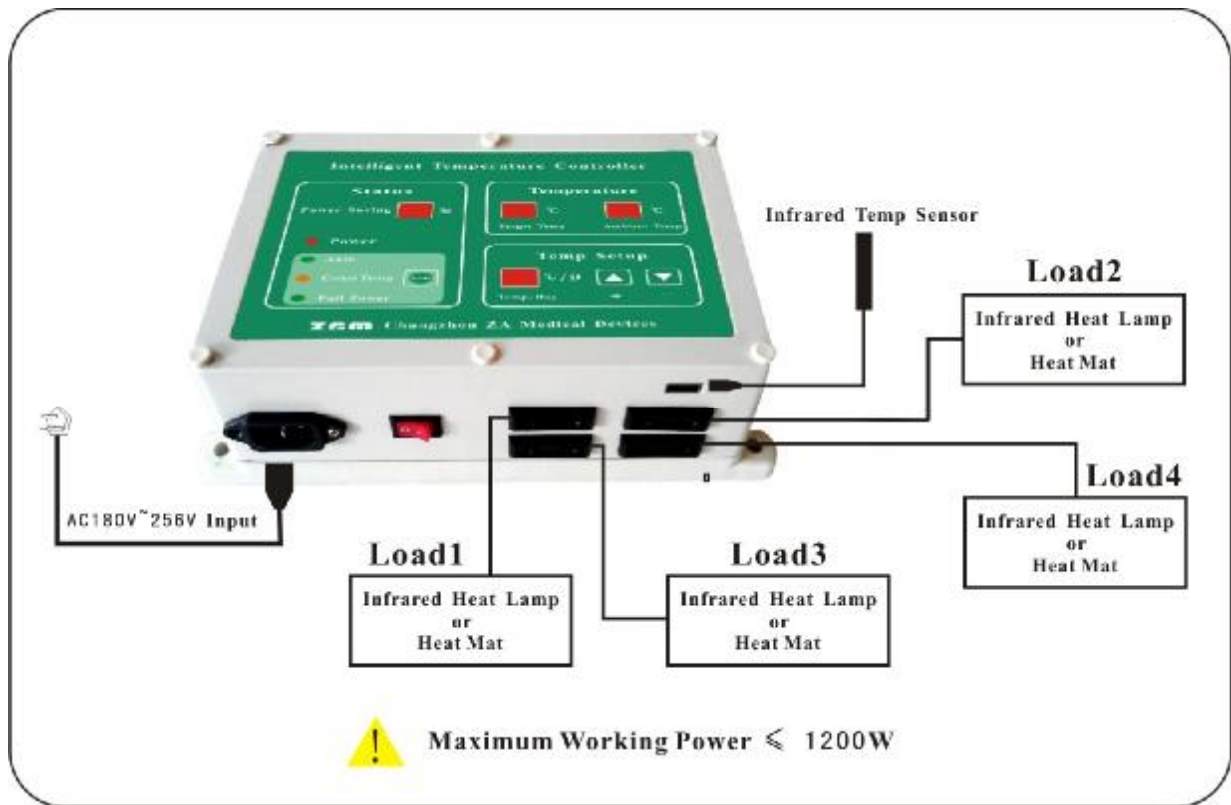# 7. Installation of Infrared Temperature Sensor

Infrared temperature sensor shall be installed on top of the insulation box cover near-infrared heat lamp, but to avoid heat lamp shade edge blocking the probe, shown in the following figure.

Open a hole on the top cover, then slotting the infrared temperature sensor into the round hole, using provided self tapping screws to fasten the sensor on the top cover of the box. As shown in the following figure:

8. Controller Setup

Notes:

1. Non-professionals, when the controller does not work properly, do not open the cover without authorization, please inform the manufacturer for processing.

2. Since the controller generates some heat, ambient temperature may be higher than the measurement value.

Contact Infomation

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