

QUSKLISU XM-18

QUSKLISU XM-18 Automatic Incubator Controller

USER MANUAL

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the QUSKLISU XM-18 Automatic Incubator Controller. This device is designed to precisely control temperature and humidity within an egg incubator, facilitating optimal conditions for hatching. Please read this manual thoroughly before use to ensure proper function and longevity of the product.

2. Product Overview

The XM-18 controller is an intelligent system capable of automatically managing temperature, humidity, egg turning, air cooling, and ventilation. It features high-precision sensors and a clear digital display for monitoring and control.

Key Features:

- Automatic temperature and humidity control.
- Automated egg turning, air cooling, and ventilation functions.
- High-precision digital temperature and humidity sensors.
- Digital display with seven different signal alerts (high temperature, low temperature, humidity control, egg turning, etc.).
- Compact and portable design.

Included Components:

- 1 x XM-18 Incubator Controller
- 1 x Temperature Sensor
- 1 x Humidity Sensor



Image: The XM-18 Incubator Controller shown with its temperature and humidity sensors, alongside a chick and a broken egg, illustrating its application.



110V

Image: A clear view of the XM-18 controller's front panel and its included temperature and humidity sensors.

3. Specifications

Model	XM-18
Dimensions (L x W x H)	16cm x 9cm x 8cm (6.30" x 3.54" x 3.15")
Weight	0.4 kg (0.882 lbs)
Voltage	AC110V, 60HZ
Temperature Measuring Range	0-99°C
Temperature Measurement Accuracy	±0.1°C
Humidity Measurement Range	0-99% RH
Humidity Measurement Accuracy	±3% RH
Number of Signal-output	7
Max. Egg-turning Record	999 times

Egg-turning Cycle Adjustment	0 - 999 minutes
Egg-turning Time Adjustment	0 - 999 seconds
Ventilation Cycle Adjustment	0 - 999 minutes
Ventilation Time Adjustment	0 - 999 seconds
Temperature Measurement Line Length	About 200cm (78.74 inch)
Relative Humidity (Operating)	Less than 85% RH
Ambient Temperature (Operating)	-10°C to 60°C



Image: A diagram illustrating the physical dimensions of the XM-18 Incubator Controller.

4. Setup

Before operating the XM-18 controller, ensure all connections are secure and correct. Incorrect wiring can damage the device or lead to inaccurate readings.

Wiring Instructions:

1. **Power Connection:** Connect the AC110V power supply to the designated terminals (L and N).
2. **Temperature Sensor:** Plug the temperature sensor into its dedicated port.
3. **Humidity Sensor:** Plug the humidity sensor into its dedicated port.
4. **Output Connections:** Connect heating elements (HEAT1, HEAT2), fan, egg turning motors (LEFT, RIGHT), and humidification device (WET) to their respective output terminals as indicated on the back panel. Refer to the wiring diagram below for precise connections.



Image: The rear view of the XM-18 controller, detailing the various wiring terminals for power, sensors, and output devices.

Ensure all connections are tight and insulated to prevent electrical hazards.

5. Operating Instructions

Once the controller is properly wired and powered on, it will display the current temperature (PV TEMP) and humidity (PV WET%). The set values (SV) for temperature and humidity can be adjusted.

Basic Operation:

1. **Power On:** Connect the controller to a 110V AC power source. The display will light up.
2. **Setting Temperature:** Press the **SET** button. Use the **UP** and **DOWN** arrow buttons to adjust the desired temperature (SV TEMP). Press **OK** to confirm.
3. **Setting Humidity:** Press the **SET** button again to cycle to humidity settings. Use the **UP** and **DOWN** arrow buttons to adjust the desired humidity (SV WET%). Press **OK** to confirm.
4. **Egg Turning Cycle:** The controller can be programmed for automatic egg turning. Consult the detailed English instructional manual included with your product for specific programming steps for egg turning duration and interval.
5. **Alarm Indicators:** The front panel features indicator lights for FAN, HEAT1, HEAT2, UP (egg turning), DOWN (egg turning), WET (humidification), and ALARM. These lights indicate the operational status of connected devices and alert conditions.

For advanced settings and detailed programming of egg turning, ventilation, and alarm parameters, refer to the comprehensive English instructional manual provided with the product.

6. Maintenance

Regular maintenance ensures the optimal performance and extends the lifespan of your XM-18 Incubator Controller.

- **Cleaning:** Periodically wipe the controller's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the device.

- **Sensor Care:** Keep the temperature and humidity sensors clean and free from dust or debris. Avoid physical damage to the sensor probes.
- **Storage:** When not in use, store the controller in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Inspection:** Regularly check all wiring connections for looseness or signs of wear.

7. Troubleshooting

If you encounter issues with your XM-18 controller, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Controller does not power on	No power supply; loose power connection; faulty power cable.	Check power outlet; ensure power cable is securely connected; test with another power cable if available.
Inaccurate temperature/humidity readings	Sensor dirty or damaged; sensor not properly connected; environmental interference.	Clean sensors; ensure sensors are securely plugged in; verify sensor placement away from direct airflow or heat sources.
Egg turning not working	Egg turning motor not connected; incorrect settings; motor malfunction.	Check motor wiring; review egg turning cycle settings in the manual; test motor independently if possible.
Heating/Humidification not activating	Heating/humidification device not connected; set temperature/humidity already reached; device malfunction.	Verify device wiring; check set points; test heating/humidification device independently.

If the problem persists after attempting these solutions, please contact customer support.

8. Warranty Information

This product comes with a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging or contact customer support for details regarding warranty coverage and terms.

9. Customer Support

For any questions, technical assistance, or support regarding your QUSKLISU XM-18 Automatic Incubator Controller, please refer to the contact information provided in your product documentation or visit the official QUSKLISU website.