

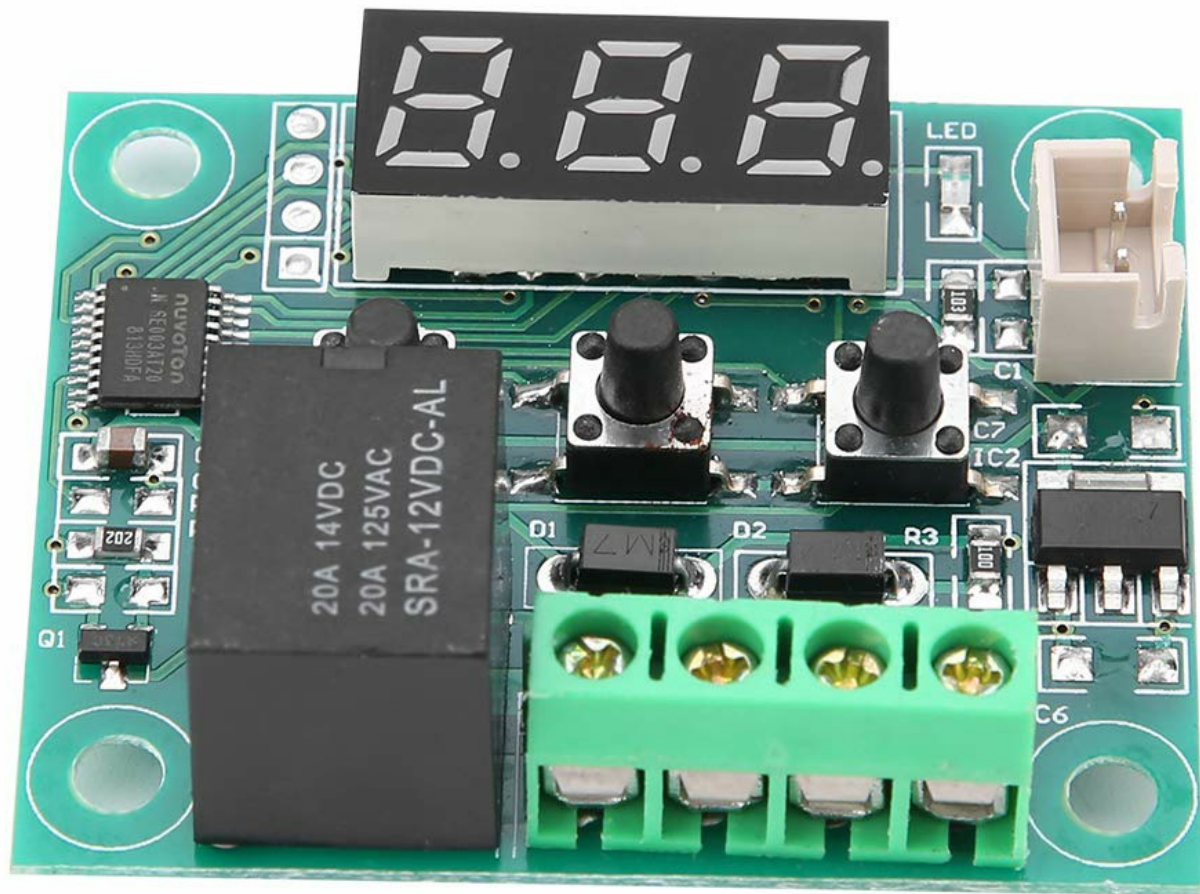
Srliya XH W1209

Srliya XH W1209 Digital Thermostat Temperature Control Switch Sensor Module

MODEL: XH-W1209

1. Introduction

The Srliya XH-W1209 is a compact and precise digital thermostat module designed for various temperature control applications. It features an ST chip for stable performance, a clear digital display for easy temperature monitoring, and a wide temperature control range. This module is suitable for integration into industrial control equipment, machine case temperature regulation, poultry incubation systems, and air conditioning units.



The XH W1209 module, featuring a 3-digit LED display, control buttons, relay, terminal blocks, and connected NTC temperature sensor.

2. Features

- **Digital Display:** Easy-to-read 3-digit LED display for current temperature and settings.
- **ST Chip Control:** Ensures stable and reliable temperature control performance.
- **Wide Temperature Range:** Controls temperatures from -50°C to 110°C.
- **High Accuracy:** Temperature control accuracy of 0.1°C.
- **Simple Setting:** User-friendly interface for setting parameters.
- **Versatile Application:** Suitable for machine case temperature control, poultry incubation, air conditioning systems, and more.
- **Relay Output:** 10A relay output for controlling external loads.

3. Specifications

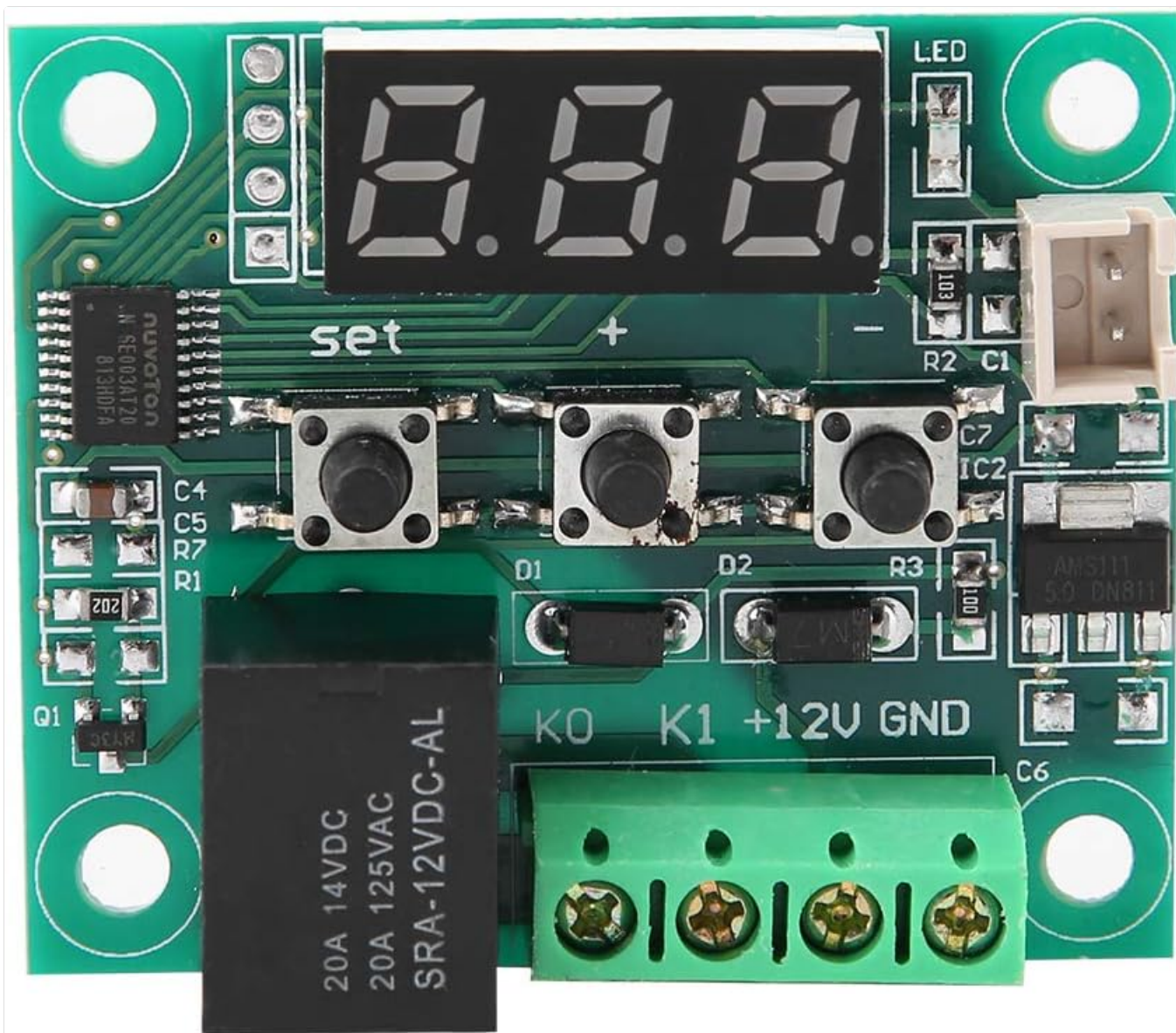
Parameter	Value
Model	XH-W1209
Power Supply Voltage	DC 12V
Temperature Control Range	-50°C to 110°C
Control Accuracy	0.1°C
Measurement Input	NTC10K/B3950 Waterproof Sensor
Output Type	Relay Output 10A
Refresh Rate	0.5 seconds
Main Board Power Consumption	Static current ≤35mA, Pull current ≤65mA
Operating Temperature	-50°C to 110°C

4. Components Included

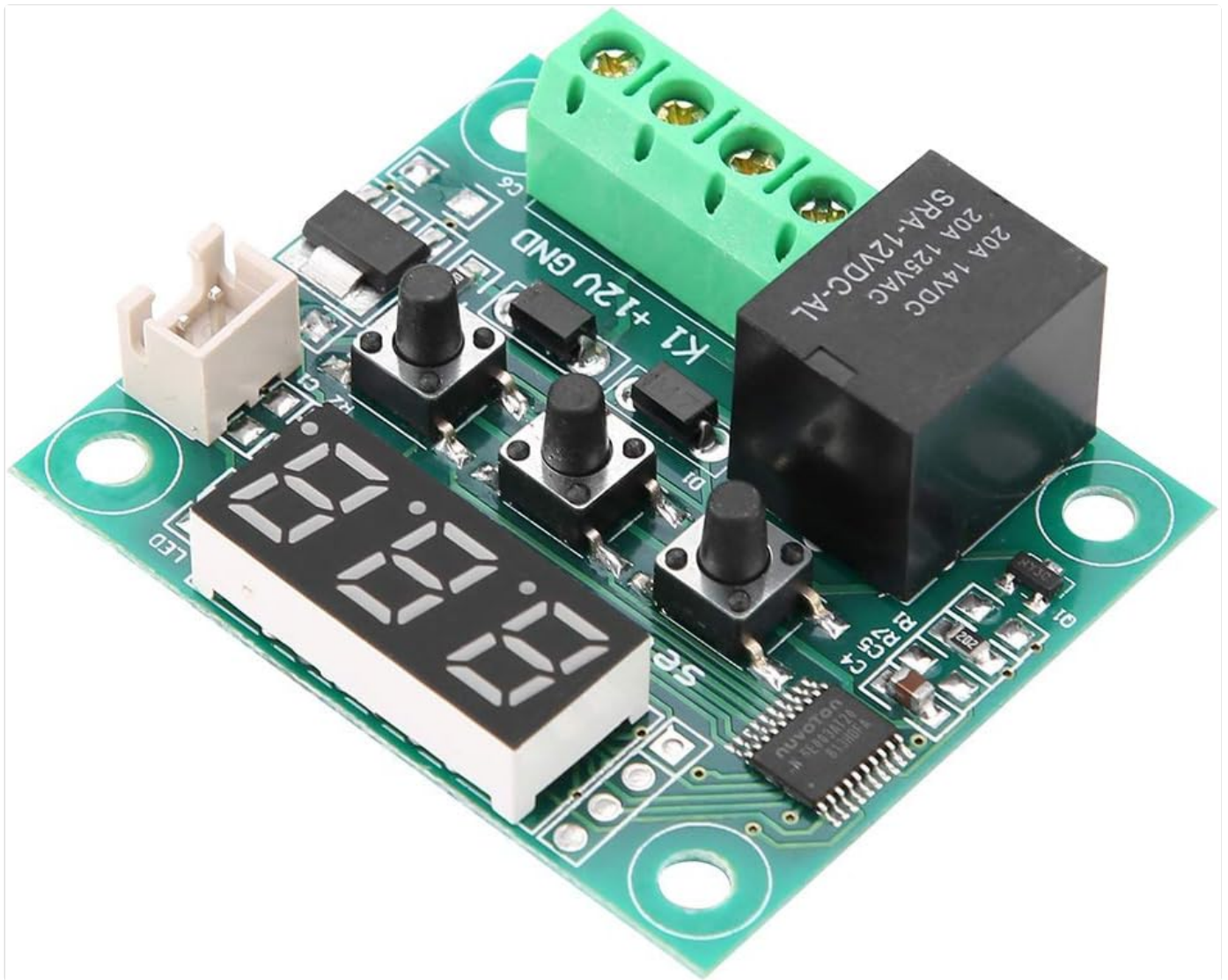
- 1 x XH-W1209 Digital Thermostat Module
- 1 x NTC Temperature Sensor Probe

5. Module Overview and Wiring

Familiarize yourself with the module's components and connection points before proceeding with installation.



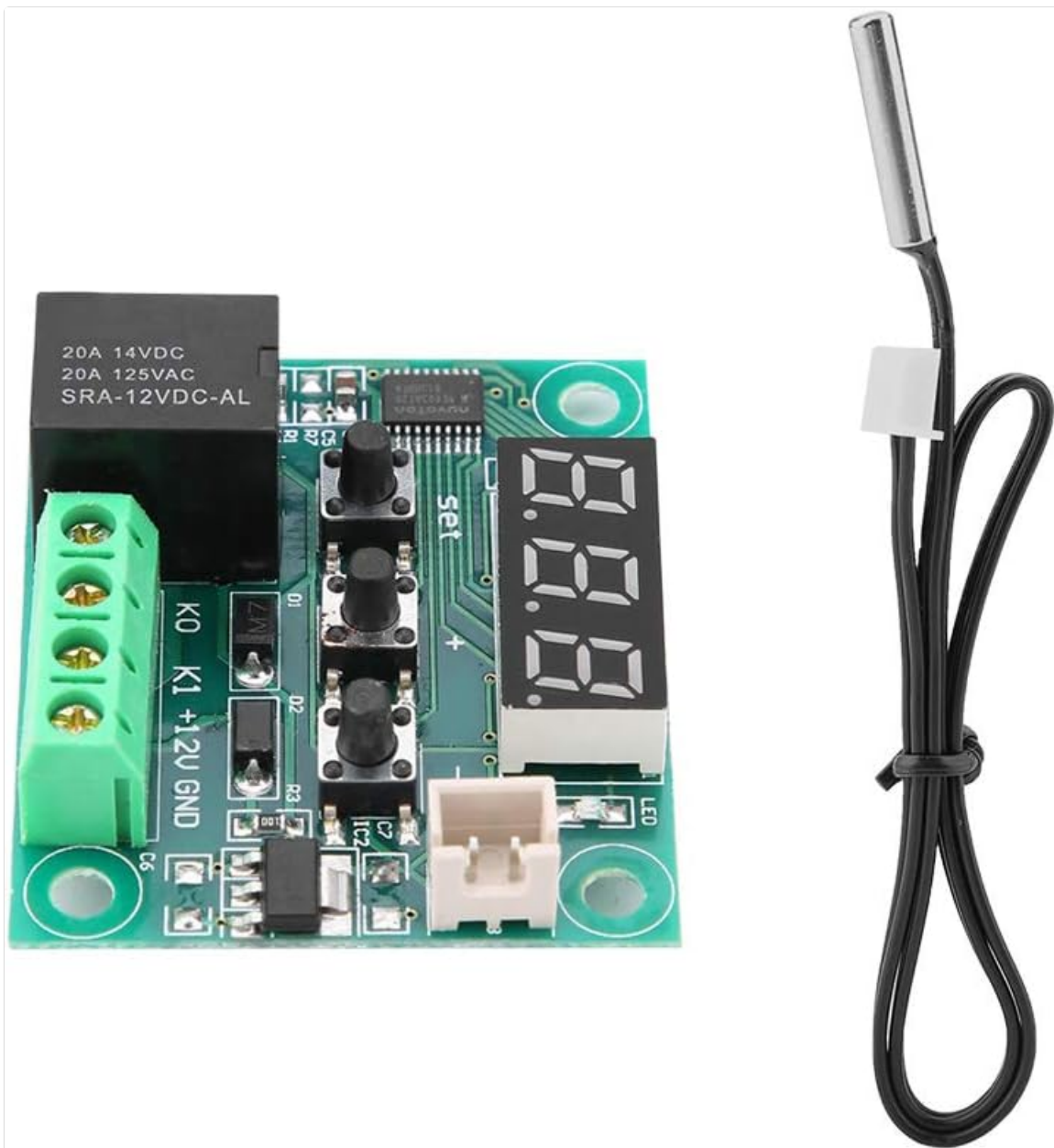
A clear view of the XH W1209 module's digital display and the three control buttons: 'Set', '+', and '-'.



This image shows the terminal blocks for power input (12V, GND) and relay output (K0, K1), along with the main relay component.

Wiring Instructions:

1. **Power Input:** Connect a DC 12V power supply to the **+12V** and **GND** terminals. Ensure correct polarity.
2. **Temperature Sensor:** Plug the NTC temperature sensor into the white 2-pin connector labeled **LED** or **Sensor**.
3. **Load Output:** Connect the device you wish to control (e.g., heating element, cooling fan) to the **K0** and **K1** terminals. These are relay contacts and act as a switch. The relay can handle up to 10A at 12V DC or 20A at 125V AC. Ensure your load's power requirements do not exceed these limits.



The XH W1209 module with the NTC temperature sensor properly connected to its dedicated white connector.

6. Operating Instructions

The module has three buttons: **SET**, **+** (Up), and **-** (Down).

6.1. Setting the Temperature (P0)

1. Press the **SET** button once. The display will flash.
2. Use the **+** or **-** buttons to adjust the desired temperature set point.
3. Press **SET** again or wait 5 seconds for the setting to be saved and the module to return to normal operation.

6.2. Parameter Settings (P0-P8)

To access advanced parameters, press and hold the **SET** button for approximately 5 seconds. The display will show P0. Use **+** or **-** to cycle through P0-P8. Press **SET** once to enter a specific parameter's setting, then use **+** or **-** to change its value. Press **SET** again to confirm and exit the parameter, or hold **SET** to exit the entire menu.

Parameter	Description	Range	Default
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P0	Cooling/Heating Mode	C (Cooling) / H (Heating)	C
P1	Hysteresis Setting	0.1 - 30.0°C	2.0°C
P2	Upper Limit of Temperature Setting	-50 - 110°C	110°C
P3	Lower Limit of Temperature Setting	-50 - 110°C	-50°C
P4	Temperature Correction	-10.0 - 10.0°C	0.0°C
P5	Delay Start Time	0 - 10 minutes	0 minutes
P6	High Temperature Alarm	OFF / -50 - 110°C	OFF
P7	Data Lock	ON / OFF	OFF
P8	Restore Factory Settings	ON / OFF	OFF

6.3. Restore Factory Settings

To restore all parameters to their factory default values, access P8 in the parameter settings menu, set it to 'ON', and then confirm. The module will reset.

7. Maintenance

- Keep the module clean and free from dust and moisture.
- Ensure all wiring connections are secure and free from corrosion.
- Avoid exposing the NTC sensor to extreme physical stress or corrosive environments.
- Do not attempt to disassemble the module beyond what is necessary for installation.

8. Troubleshooting

Display	Problem	Solution
LLL	Sensor open circuit or not connected.	Check sensor connection. Replace sensor if damaged.
HHH	Temperature exceeds upper limit (110°C).	Verify ambient temperature. Check sensor for damage.
---	Temperature below lower limit (-50°C).	Verify ambient temperature. Check sensor for damage.
Module not powering on	No power or incorrect wiring.	Check 12V DC power supply and ensure correct polarity (+12V to +12V, GND to GND).

9. Warranty and Support

For warranty information or technical support, please refer to the seller's policies or contact the retailer from whom you purchased this product. Keep your purchase receipt for any warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question