

LS300

Solar Film Temperature Meter

User Manual V11.04

Please read this manual carefully before using and reserve it for reference.

I. Product introduction

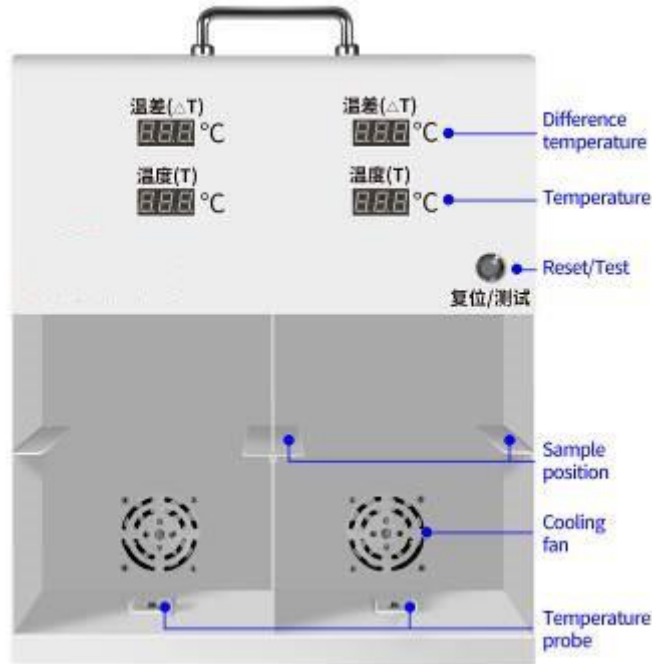
The solar film temperature meter is designed to demonstrate heat-insulating property of the solar film. It can be used to measure the temperature value.

- Two 150w Philips infrared lamps.
- "Temperature" LED to display the current temperature value.
- "Difference temperature" LED to display the difference temperature from testing begin to end.

Standards for the product: *JJG(苏)99-2010 Digital Thermo-hygrometers*

II. Parameters

1. Temperature measurement accuracy for a single side: $\pm 0.5^{\circ}\text{C}$
2. Heterogeneous temperature degree of two infrared lamps: 2°C
3. Temperature measuring range: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
4. Time for temperature test: 1 min
5. Size of the testing glass: 200mm * 160mm
6. Gross weight: about 12 kg.
7. Dimensions: 340mm×200mm×400mm(L*W*H)
8. Power supply: 220V AC
9. Operating current: 2A
10. Operating power consumption: 400W



III. Operations

There are three testing statuses of the meter: waiting for testing, being testing and end of testing

- Waiting for testing: the "Difference temperature" data is zero and flashes to indicate waiting for testing. Under this status, press the button to enter into the status of being testing.
- Being testing: the "Difference temperature" data stops flashing, and the infrared lamps are lit up. After the 1-min test ends, the infrared lamps lights off and the instrument automatically enters into the status of end of testing.
- End of testing: temperature value are held. Press "Reset/test" to release the data-hold and enter into the status of waiting for testing.

1. Powering on

Power the instrument on by plugging into 220V AC power source.

2. "Reset/test" button

When the "Difference temperature" LED flashes, the data on "Temperature" LED refers to the actual temperature in the current test box. When the gap in actual temperature between left and right test boxes falls within 1 degree, the test data becomes more accurate.

When the "Difference temperature " LED flashes and the gap in actual temperature between left and right test boxes falls within 1 degree, press the button "Reset/test" to begin the test, with both infrared lamps lit up and the temperature in left and right test boxes climbing up.

The test will end after one minute. At that time, the infrared lamps go out, and the temperature values obtained from the test are displayed respectively on the temperature LEDs in left and right test boxes and remain unchanged.

Press the button "Reset/test" again to release the data-hold.

IV. Temperature comparison test

Two independent infrared lamps and temperature probes are available for the instrument, which enable the temperature comparison test to measure heat-insulating property of two different film mounting glasses. See the followin for test procedures:

1. Place two samples respectively into text boxes in left and right sides of the instrument.
2. Press "Reset/test" to light up two infrared lamps and start the test. The temperature in left and right boxes begins to climb up.
3. The test ends after one minute. Then, the infrared lamps go out and the temperature values obtained from the test are displayed respectively on the temperature LEDs in left and right test boxes. Such values remain unchanged and cannot be reset until the button "Rest/test" is pressed.
4. "Difference temperature" LED to display the difference temperature from testing begin to end of each boxes side.

V. Precautions

1. After the test ends, the fan will automatically start for cooling and stop after four minutes.
2. As the test data remains unchanged after the test ends, it's necessary to press again the button "Reset/Test" to reset the temperature difference and temperature data. After resetting, the temperature data will flash and the displayed data is the actual temperature in the text box.

VI. Packing list

No.	Description	Quantity	Unit
1	Solar Film Temperature Meter	1	pcs
2	User Manual	1	pcs
3	Certificate / warranty card	1	pcs

VII. Service

1. The meter has one-year warranty. If the meter works abnormally, please send the whole meter to the company for maintenance.
2. Provide users with spare parts and lifelong maintenance services.
3. Provide the users with the meter inspection service for free.
4. Free technical support for long term.



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