



Japsin
Instrumentation™



LCD DISPLAY BLACK BODY SOURCE CALIBRATOR **MODEL: JI-TB-IR-500**



Purpose: “Ji” Black body source calibrator is used to calibrate infrared thermometers with precision.

Special Features:

- 1) Compact Light Weight & easy to carry
- 2) Large flat plate diameter to enable calibration from larger & safe distance.
- 3) Excellent thermal stability & thermal uniformity.
- 4) Covers wide operating range to cater higher calibration work load

Technical Specification:

Temperature Range Ambient to 500 Deg C

Emissivity 0.95

Temperature Resolution 0.1 Deg C

Stability 1) +/-0.1 Deg C At 100 Deg C

2) +/- 0.2 Deg C At 200 Deg C

3) +/- 0.2 Deg C At 300 Deg C

4) +/- 0.3 Deg C At 400 Deg C

5) +/- 0.4 Deg C At 500 Deg C

Uniformity 1) +/-0.1 Deg C At 100 Deg C

2) +/- 0.2 Deg C At 200 Deg C

3) +/- 0.2 Deg C At 300 Deg C

4) +/- 0.3 Deg C At 400 Deg C

5) +/- 0.4 Deg C At 500 Deg C

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Technical Specification:

Method to Control Digital Self Tuned LCD

Display PID Controller

Time to reach MAX Temperature 25 Min.

Dia 90 mm

Target Area 40 mm

Power Requirement 230 VAC 800 Watt

Weight Approx 8 Kgs.

Dimensions H 300 X W 225 X D 350 mm

Supplied along: Power Supply Cord 1 No. 1 No.

Sensor Thermocouple 3mm X 150 mm K Type MI



OPERATING INSTRUCTIONS:

The test instrument JI-TB-IR-500 is a portable unit for service / calibrating / testing purpose as well as for operating & laboratory tasks.

- 1) After switching on the mains power switch the PID controller shows the temperature of the block. (PV). Below that green colour LED shows the set value of the block (SV).
- 2) To adjust the set point, press key (2) then a dot LED blinks near the first digit, then using up key (3) & down key (4) set the 0 – 9 digit again push the (2) key to move the dot LED to the second digit using up & down key.
- 3) After setting the set point value press the set (1) key for setting the temperatures.
- 4) The PV shows continuously the temperature of the heating block. If the adjusted set temperature in the heating block is reached, the heating energy radiated from the block is dispensed by short switching on pulses of the heating cartridge, so the temperature inside the block is kept constant.
- 5) Cooling down the heating lock can be done quickly by switching ON the fan which produces higher amount of cooling air.

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