METRAVI

INFRA RED THERMOMETER CALIBRATOR

BB-500

INTRODUCTION

The Mini Infra Red Calibrator is mainly structured by 58mm diameter target assembly and dry-well temperature system controlled by microcomputer. External reference thermometer is a metal cone with good heat-conducting ability, on the surface of thermometer there is a oxide film with emissivity 0.95.

The Calibrator is applied a class-A PT 100 as a sensor with a temperature control system and wind-cold device. The calibrator has rapid heating and cooling function and is switch able °C/°F which can be used in different temperature unit calibration.

The calibrations can be done over a range of 50°C to 500°C. Temperature display and stability resolution is 0.1 degree.



Range : 50°C to 500°C (122°F to 932°F)

Accuracy : $\pm 0.8^{\circ}$ C at temp $\leq 100^{\circ}$ C

 $(\pm 1.6^{\circ}F$ at Temp $\leq 212^{\circ}F)$ $\pm 1.6^{\circ}C$ at $100^{\circ}C < Temp \leq 200^{\circ}C$ $(\pm 3.2^{\circ}F$ at $212^{\circ}F < Temp \leq 392^{\circ}F))$ $\pm 2.8^{\circ}C$ at $200^{\circ}C < Temp \leq 500^{\circ}C$ $(\pm 5.6^{\circ}F$ at $392^{\circ}F < Temp \leq 932^{\circ}F)$

Stability : ± 0.1 °C at Temp ≤ 100 °C

($\pm 0.2^{\circ}$ F at Temp $\leq 212^{\circ}$ F) $\pm 0.2^{\circ}$ C at 100° C < Temp $\leq 350^{\circ}$ C

(±0.4°F at 212°F < Temp 662°F) ±0.4°C at 200°C < Temp ≤ 500°C (± 0.8°F at 392°F < Temp ≤ 932°F)

Target Emisivity : 0.95

Resolution : 0.1°C/0.1°F

Heating Time : 30 minutes to max

Cooling Time : 30 minutes to 100°C (122°F)

Aperture Diameter : 58 mm

Power : 220VAC (±10%), 1.25A/110VAC

(±10%), 2.5A

Size : 180 x 114 x 233 mm

Weight : 3 kg

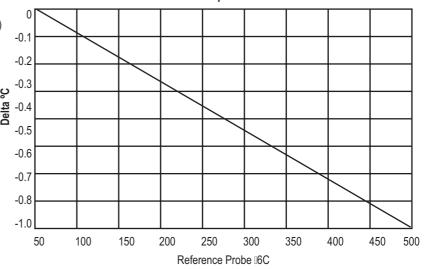
ENVIRONMENTAL CONDITIONS

Although the instrument has been designed for optimum durability and trouble-free operation, it must be handled with care. The instrument should not be operated in an excessively dusty or dirty environment.

Maintenance and cleaning recommendations can be be found in the Maintenance section of this manual. The instrument operates safety under the following conditions:



Gradient between probe and IR surface



Temperature range : 5-35°C (41-95°F)

Ambient relative humidity : 15-80%

Pressure : 75kPa - 106kPa

Mains voltage within : 10% of nominal

Vibrations in the calibration environment should be minimized

*Technical Specifications & Appearance are subject to change without prior notice

THE QUALITY LEADER