

JAPSININSTRUMENTATION

Ji



**ISO 9001:2015 CERTIFIED ORGANISATION
COMPLETE RANGE OF FLOW, LEVEL,
TEMPERATURE & PRESSUREINSTRUMENTS**



TEMPERATURE CALIBRATION BATH LOW RANGE -30 TO 125 DEG C (DRY BLOCK TYPE) , MODEL JI-TB-30-125

Purpose: A Temperature Calibration bath is used to obtain precise temperature for calibration of RTD's, (LIG) Liquid in Glass Thermometer, Thermocouples & PRTs, SPRTs. Temperature Calibration baths are electric controllers which are in high reliability & accuracy in the measuring Temperature. Temperature Calibration Bath is particularly suitable for calibration of the widest range of Temperature Gauges or Instruments.



TEMPERATURE CALIBRATION BATH LOW RANGE -30 TO 125 DEG C (DRY BLOCK TYPE) DESCRIPTION

The Test instruments consist of two single enclosures.

The right enclosure contains:

- 1) PID controller for control of the block temperature in which we can see the set value & present temperature of the block.
- 2) Power switches & power on indicator
- 3) Fan ON / OFF switch for cooling the block.
- 1) cooling air

ADAPTER POCKETS:

It has to be made sure that the heat transmission resistance between the heating block & the test piece (thermometer, temperature sensor, temperature switch) is as low as possible. Therefore it is necessary to use exactly adapted pockets.

TECHNICAL DATA:

Regulation of the heating block	PID regulator
Temperature Range	-30 to 125 deg C
Power Supply	230 V AC, 50 Hz.
Power consumption	1000 Watts
Accuracy	+/- 0.5 %

Reference note:

- 1) Stability: 0.2 Deg C
- 2) Uniformity: Max 0.2 Deg C
- 3) Radial Max 0.2 Deg C
- 4) Axial Max 0.5 Deg C

DIMENSIONS:

Block Bore ID 30.5 mm

Immersion length 150 mm

3 numbers of Adapter pockets of 30 mm OD are provided extra with the following sizes:

- 1) ID 5 mm, 6.2 mm, 6.2 mm & 8.2 mm ID (4 Holes)
- 2) ID 6.2 mm, 13 mm ID (2 Holes)
- 3) ID 6.2 mm, 10.2 ID (2 Holes)

Size of the instrument 150 X 300 X 280 mm

Weight of the instrument Approx. 8.5 Kg

- 1) Initially when the bath is connected to power supply it shall show the ambient temperature & later on could be taken to any temperature point from -30 to 125 deg C thru the PID controller by heating or cooling with ON power supply.
- 2) Stability : 0.2 deg C
- 3) Accuracy : +/- 0.5 %
- 4) Heating time from ambient to 125 deg C : 10 to 15 Minutes
- 5) Cooling time from ambient to -30 : 10 to 15 Minutes
- 6) Instant cooling : Additional liquid methanol could be used in the well

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