SANSEL®

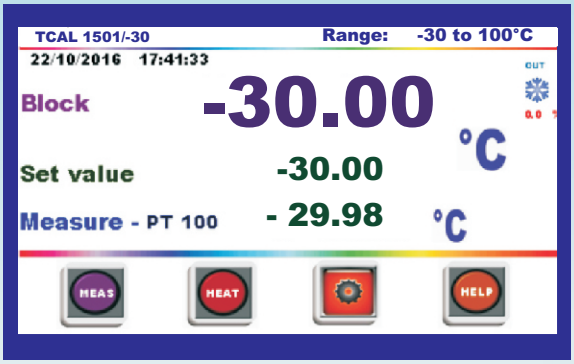
" Total Solution Under One Roof "
Manufacturing, Servicing & Calibration

ISO 9001

An ISO 9001 - 2008 Company

TEMPERATURE CALIBRATOR

MODEL : TCAL 1501 / -30



Description

"SANSEL" series TCAL 1501 / -30 is a micro controller based precision "DRY BLOCK" temperature calibrators generates true reference temperature. The temperature controller of the calibrators uses a auto tune FUZZY PID controller algorithm. This response closely follows the heating / cooling curve of an actual thermal system.

Place the sensor to be calibrated in the calibrator. Set the temperature from the 4.3 inch true TFT display with touch screen. Both Block, set and measure temperature can be read. When stabilization occurs, Simply read the temperature and re-calibrate the process system or sensor.

Applications

- Food industries
- Pharmaceutical industries
- R & D Laboratories
- Calibrators laboratories
- Automobile industries etc,

Calibration of Thermo couples, RTDs - type (PT 100, K, R, S, B, etc.)

The temperature calibrators and calibration bath are already a part of the standard equipment of the technician in the above listed sectors

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Digital Thermometers

Calibration is performed by comparison of the temperature measured by test piece and the block temperature indicated by the TCAL 1501 / -30 or comparison with master Thermocouple / RTD reading.

Thermocouples & RTDs

Temperature measuring facility is inbuilt with TCAL 1501 / -30. The calibration is performed by comparison of the temperature indicated on the measure mode with the Block temperature.

Features

- 4.3 inch True TFT DISPLAY with touch screen
- Range from -30* to 100°C
- Micro Controller Based Linearized High Accuracy
- Stable to ± 0.02°C
- Uniformity ± 0.2°C
- Resolution 0.01 °C
- Portable & Rugged
- No Liquids, Safe dry Calibration
- Optional PC Interface RS 485
- Temperature Switch Test
- NABL Traceable Calibration Certificate

Technical Data

MODEL	TCAL 1501 / -30
Temperature Range	- 30 * to 100 °C
Resolution	0.01 °C
Stability	± 0.02 °C
Uniformity	± 0.2 °C
Display	4.3 inch True TFT DISPLAY with touch screen
Heating time (mins)	20 (Amb. to 100°C)
Cooling time (mins)	25 (25 to -30°C) (100 to 25°C)
Time to stabilize (mins)	10
Well Dimension (dia. xdepth) in mm	22 x 120
Standard Well Hole in mm	5.2, 6.2, 6.2
Dimension (L*W*H)in mm (Approx.)	409 L x 178 W x 357 H
Weight (Approx.)	12.5 kg (without well insert & Carrying case)
Measure inputs	RTD-PT 100 / TC, -J, K, R, S, T, E, B , N / mA /mV / ohms
Power Consumption	500 VA
Power Supply	110 or 230V AC 50/60 HZ
Switch test	Provided
PC interface	RS 485 (optional)

Note: Due to continuous product improvements, Published specifications may change with out notice

* Range from -30 to 100°C @ Ambient 25°C

Standard Delivery

Basic Instrument
Spare Fuses
Mains Card
Cable for Thermostat Switch Test
Instruction Manual
Tool for Insertion Tube
Dry Block Insert Well
Traceable Calibration Certificate
Carrying Case

Optional

110V AC 60Hz Power supply
Reference Standard Thermocouple

Carrying Case

SANSEL INSTRUMENTS AND CONTROLS
SANSEL CALIBRATION LABORATORIES
NABL Accredited Calibration Lab (Thermal, Mechanical, Electro-Technical Parameters)
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