

PRECISION SUB-ZERO DRY BLOCK TEMPERATURE CALIBRATOR

Model: TCAL 1405 / -30



ECONOMY MODEL

Improved Stability, Axial & Radial Uniformity to meet the **EURAMET cg-13** requirements

Advanced Economy & **Value for Money**

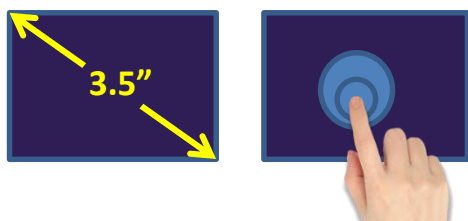
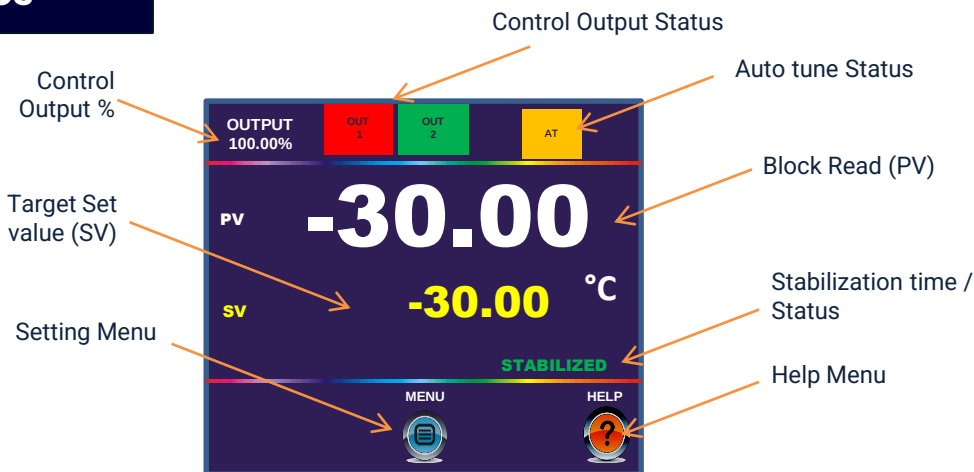
3.5" True TFT Multi colour touch screen display

Introduction

SANSEL Model TCAL 1405 / -30 Dry well Temperature calibrator are high performance for industrial and Laboratory atmosphere and covering temperature range from -30* to 100°C. Which are ideally suited onsite calibration of thermocouple, RTDs, Indicator with sensors & 4-20mA signal transmitter with sensor & indicator in Food, Pharmaceutical and all types of process industries and Calibration Laboratories. Having it's advantage of user friendly, light weight, portable, fast settling, better uniformity and accuracy over a wide temperature range.

TCAL 1405 / -30 having interchangeable inserts to suit for calibration of different diameter of sensors. Additional Inserts (optional) with special drillings are available on request.

Key Features



3.5" True TFT Multi colour touch screen display - Clear and user-friendly touch screen for easy operation and quick access to settings. Provides better visibility, smooth control, and simple navigation for all users.



Block Read (PV) & Target Set Value (SV) with 0.01°C Resolution - Provides accurate temperature reading and precise target value setting with 0.01°C resolution. Ensures reliable calibration results with better accuracy for critical applications.

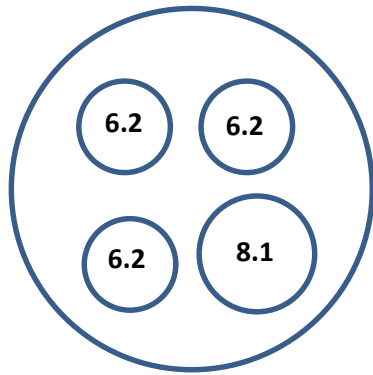


Safety Cutoff for Over Temperature - Automatically shuts off the system when body temperature exceeds safe limits. Protects the instrument and user from overheating for safe and reliable operation.



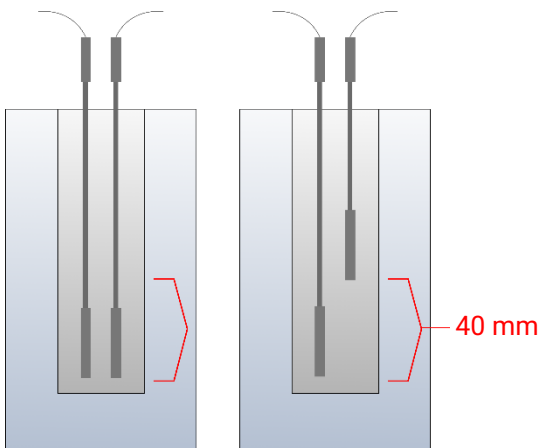
Stability Indicator – Displays if the stable target temperature is reached with in band for accurate calibration. Shows "Stabilized" status only after complete stability for reliable and confident measurements.

STANDARD

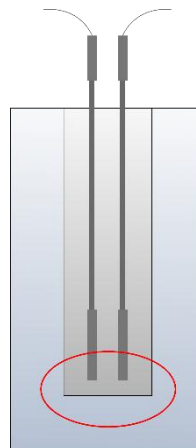


Interchangeable Insert to Suit Different Diameter Sensors - Comes with interchangeable inserts to fit different sensor sizes up to 25 mm diameter. Allows calibration of multiple sensor types with one device for greater flexibility and efficiency.

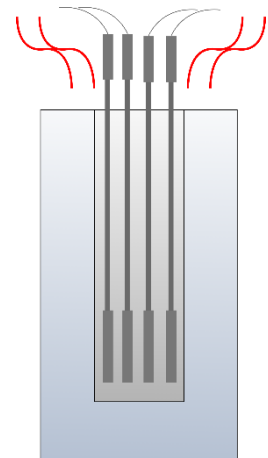
Note : Standard 6.2 x 3nos, 8.1 x 1nos supplied as standard accessories. Other than standard insert additional cost as per customer requirement



Improved Axial Uniformity
upto 40mm : $\pm 0.06\text{ }^{\circ}\text{C}$ (from -30 to $50\text{ }^{\circ}\text{C}$), $\pm 0.1\text{ }^{\circ}\text{C}$ (from 51 to $100\text{ }^{\circ}\text{C}$)



Improved Radial Uniformity : $\pm 0.05\text{ }^{\circ}\text{C}$



Loading Effect :
 $\pm 0.04\text{ }^{\circ}\text{C}$

Block Stability : $\pm 0.03\text{ }^{\circ}\text{C}$

Hysteresis : $\pm 0.02\text{ }^{\circ}\text{C}$

Range from -30° to $100\text{ }^{\circ}\text{C}$

Portable & Rugged

Linearized High Accuracy

Inter changeable insert to suit different diameter sensor - up to 25 mm

No Liquids, Safe dry Calibration

Multi colour touch screen display

ISO / IEC 17025 Standard Accredited Calibration Certificate

Technical Specification

Model	TCAL 1405/ - 30
Temperature Range	-30* to 100°C (* @ Ambient 25 °C)
Resolution	0.01°C
Display	3.5" True TFT Multi colour touch screen display
Temperature readout	°C / °F
Block Stability	± 0.03°C
Axial Uniformity upto 40mm	± 0.06 °C (from -30 to 50 °C), ± 0.1 °C (from 51 to 100 °C)
Radial Uniformity	± 0.05°C
Loading Effect	± 0.04°C
Hysteresis	± 0.02°C
Well Dimension(dia. x height x hole depth)	25 x 145 x 130 mm
Standard well holes in mm	6.2 x 3nos, 8.1 x 1nos
Power supply	230V AC ± 10% / 50Hz (Optional 110V AC), 500 W
Overall Dimension in mm	142.0 x 233.5 x 271.5 (L x B x H)(Approx.)
Instrument Weight	8 kg (Approx.)

Note:

- The above specifications are tested at Ambient 25 °C
- Due to continuous product improvements, Published specifications may change with out notice

Standard Delivery

1. Basic Instrument
2. Spare fuses
3. Standard well insert
4. Well tool
5. Instruction manual
6. Mains card

Optional

1. ISO/IEC 17025 Accredited calibration certificate
2. Master Indicator with sensor
3. Additional well insert
4. Carrying case



Carrying case



SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES LLP

ISO/IEC 17025 Accredited Calibration Laboratory by NABL CC - 2879
(Thermal, Mechanical, Electro-Technical, Dimension Parameters)

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