

30°C to 600°C

# Dry Block Calibrator-Large Volume OTANA

- High Temperature Thermocouple Calibration Furnace
- Large volume
- Portable

The OTANA range offers extreme high temperature calibration in an easy to use portable package - ideal for the calibration of high temperature thermocouples. It has been designed for fast heating and finds applications in the glass, electrical power, automotive and material processing industries.

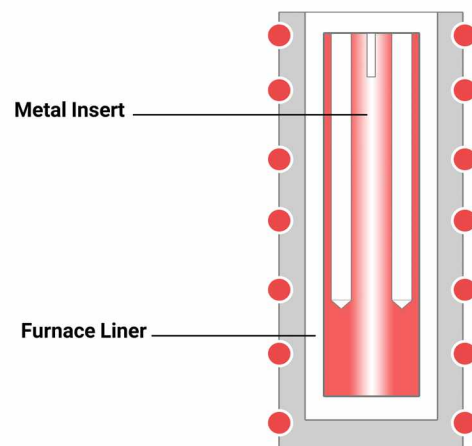
A Blackbody target can be added for the calibration of infrared thermometers.

The standard insert has six pockets 80mm deep. The metal insert is strategically placed beneath 50mm of insulation to provide optimal performance over the radiant temperature range. The optional Blackbody target is used with a specially angled Type S thermocouple that sits immediately behind the target area.

These calibrators are easy to use and are available in three versions - the Basic, the Site and the Advanced. The Basic has a digital display of set and nominal temperature, the Site additionally includes an in-built independent temperature indicator for a reference probe. All models include LUMA software and the Advanced models additionally include software to manage logged data and configure the unit.

## Benefits

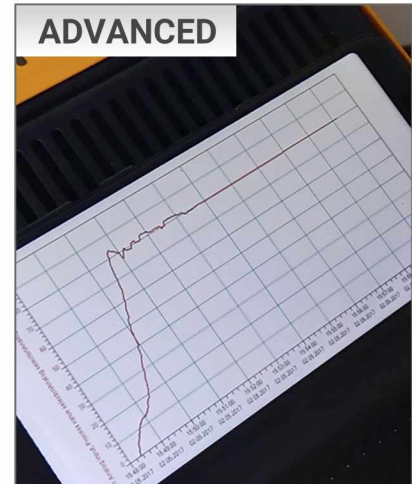
The otana features a small tube furnace to allow operation to 600°C in a portable case. With a Copper furnace construction temperature gradients are larger than with lower temperature metal blocks. The locrom furnace benefits by using a specially wound furnace tube assembly. They are manufactured in our factory with the turns concentrated at the ends of the furnace, where the heat losses are greatest. This gives an improved temperature profile and lower uncertainty. Insulators are provided for the top and bottom of the furnace which further improve temperature uniformity. The effective immersion depth is 160mm, 80mm in the metal insert.



**How to Order ?**  
[www.locrom.com](http://www.locrom.com)

# OTANA

*Available in three different versions*



## Accessories & Features

### *High Temperature Calibrators*

#### ■ Metal Block Bath

Increase the stability of the block by using alumina bullets.

#### ■ Blackbody Source

Add the Blackbody accessory to allow calibration of infrared thermometers

#### ■ Air Cooling

For use with a compressor this accessory allows air to be below into the block for rapid cooling

#### ■ Metal Block Insert

Standard Insert Included Four Pockets.pocket depth 100mm.

#### ■ Calibration

Includes traceable calibration certificate for block temperature

#### ■ Some Basic Features

Simple to Use & Outstanding Value  
Rugged Case

Internal adjustment system

Ramp to Set Temperature

Auto tuning system

PC-interface

#### ■ Some Site Feature

Accept Process Inputs Including 4-20 mA

Cold-junction adjustment

Reference Indicator

Reference Probe

#### ■ Some Advanced Features

Touch Screen LCD

Support Languages

Connect More Reference Probes

Temperature Programmer

View from Phone , PC

Stability Graph

Stability Alarm

USB Port



# OTANA

## technical Table & Charts

Parameter	Model
<b>OTANA</b>	
Temperature Range	30°C to 600°C
<b>Advanced Range</b>	
Stability	±0.05°C @ 100°C ±0.1°C @ 600°C
Display Resolution	0.01°C over whole range
Accuracy: RTD Input Channel	±0.05°C ±0.05% RDG
Accuracy: Thermocouple Input Channel	E,J,K,N: ±0.2°C @ 600°C R: ±0.6°C S: ±0.7°C @ 600°C T ±0.2°C @ 150°C
CJC Accuracy	±0.35°C
<b>Basic / Site Range</b>	
Stability	±0.05°C @ 100°C ±0.1°C @ 600°C
Display Resolution	0.01°C from 30.00 to 99.99°C then 0.1°C
<b>Common Specifications</b>	
Display Accuracy 1	0.2°C
Blackbody Source	±0.3°C
Surface Sensor Calibrator	±0.3°C
Cools from 600°C to 150°C	in 30 minutes
Heats from 30°C to 600°C	in 20 minutes
Best Performance	See Graph
Calibration volume	65mm diameter by 160 mm deep
Standard Insert	6 pockets, 3 x 6.5mm, 3 x 8.5mm, all 80mm deep
Indicator units	°C, °F, K
Power	115Vac or 230Vac 50/60Hz 1000 Watts
Dimensions	384H (including handle) x 212W x 312D mm
Weight	8.5kg

