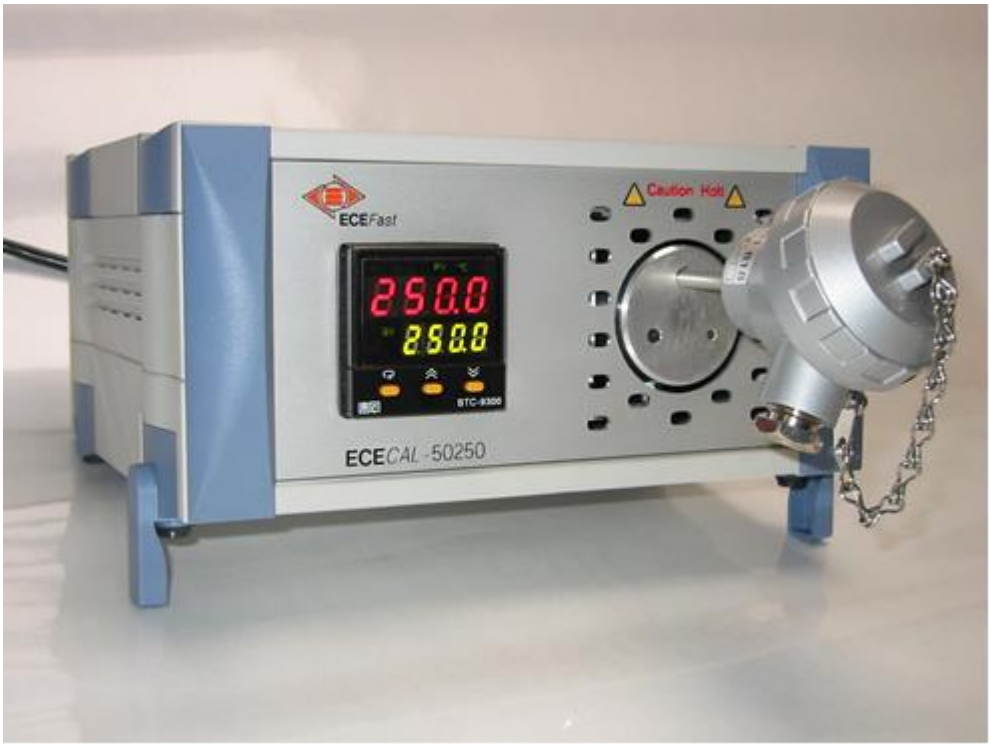
Dry-Well Calibrator

ECECal - 50250 Dry-Well Calibrator

Features

- Range 50°C to 250°C
- NATA Calibration Certificate provided
- Accepts most popular diameter probes – 3mm, 4.5mm and 6mm
- Accuracy ±1.0°C across full range.



Specifications

• Range	50°C to 250°C
• Accuracy	±1.0°C across the full range, in certified hole, at full Depth of immersion
• Heat up time	50°C to 250°C within 15 minutes
• Cool down time	250°C to 100°C within 15 minutes
• Display	Digital LED with one decimal place
• Well diameters	To accept 3mm, 4.5mm and 6mm temperature probes
• Well Depth	100mm
• NATA Certificate	5 points: 50°C, 100ºC, 150ºC, 200°C and 250°C (Other points Optional)
• Power Supply	240VAC, 50Hz
• Options	Custom dry wells (hole Ø, depth), certification points

ECEFast NZ Ltd.,
9A, 9-11 Laidlaw way, East Tamaki,
Auckland 2019, New Zealand

+64 (09) 2620106 / +64 (09) 2620106
0800 323 327
info@ecefast.co.nz, www.ecefast.co.nz

Method of Operation

The ECE*Cal* – 50250 is designed to be a fully functional Dry-Well Calibrator with a cost/performance ratio exceeding its competitors. It incorporates technologically advanced temperature control methods as well as innovative thermal transfer dynamics, ensuring accurate calibration measurements. Using the ECE*Ca*l – 50250 is easy.

Safety Note:

THE ECECAL – 50250 IS AN INDUSTRIAL ELECTRICAL/ELECTRONIC INSTRUMENT. THIS INSTRUMENT SHOULD ONLY BE OPERATED BY ***SUITABLY QUALIFIED PERSONNEL****. THE VERY NATURE OF INDUCING A HIGH TEMPERATURE IN AN EXPOSED WELL,* ***UP TO 250°C*** *FOR CALIBRATION PURPOSES, CREATES AN OPPORTUNITY TO INFLICT A* ***SERIOUS BURN*** *OR INJURY TO AN OPERATOR. PLEASE TAKE CARE!!*

Quick Reference Procedure:

Step 1
Set up the ECE*Cal* – 50250 in a suitable area with adequate ventilation, lighting and where there is NO flammable material in the immediate vicinity.

Step 2
Connect the power lead to 240 VAC mains power supply and turn the switch located near the power lead socket to the ON position.

Step 3
Using the UP and DOWN arrows on the Temperature Controller, select the desired temperature setting required for calibration. Note the manufacturers manual specific to operating the controller has been provided in addition to this manual.

Step 4
Insert the temperature sensing probe required for calibration purposes into one of the three holes provided. The probe should be inserted to full depth of immersion, so the “hot tip” touches the bottom of the well hole. The sheath of the probe should fit snugly to the walls of the hole. Note the standard well holes are provided to suit 3.0, 4.5, and 6.0mm probe diameters. Special sized holes can be provided – contact ECE*Fast.*

Step 5
Once the temperature has reached desired set point and stabilized for about 5 minutes, compare the reading on the ECE*Cal* – 50250 digital display and the inserted probe’s temperature reading. If necessary, refer to the NATA calibration certificate provided for more detailed accuracy. See notes about “ACCURACY” below.

Repeat steps 3 to 5 for other set points.

Step 6
Once measurements are completed, set the temperature to about 30° C and allow the ECE*Cal* – 50250 to cool down before packing.

Accuracy: *

Please note that errors may occur if the probe is not inserted fully in the well. Please consult ECEFast if you have sensors that are too short to be inserted full depth of the well.

The standard ECE*Cal* – 50250 is set up and calibrated in a very particular way. The top hole (6mm) is the calibrated hole, and is calibrated at 5 points from 50°C through to 250°C. Please refer to the calibration report to verify this. Therefore, it is important to note the following:

- The other two dry well holes have not been calibrated. It **cannot be assumed** that the correction value for the calibrated hole is applicable to the non-calibrated holes.
- The certification of the calibrated hole is for full depth of immersion only, Note that errors may occur of if the probe in not inserted to the bottom of the well.

Specific certification requirements – if you require other dry well holes to be certified, or require different certification temperature points, please talk to our sales team

Note: The NATA Certificate is valid for 12 months. Please contact us for re-certification