

## Complete solutions for temperature and humidity calibration and measurement



# ECEFast is a market leader for temperature and humidity calibration, measurement and control

## Our Service Offering

- In-house NATA calibration and validation services
- On-site NATA calibration and validation services
- Consulting and application services
- Sales
- New instruments with a NATA calibration certificate
- Manufacturing



## Top 5 reasons to choose ECEFast

If you want your equipment to comply with ISO or other legislated standards, or to have more confidence in the true accuracy of your equipment, we are here for you.

### 1. Quality, Traceability, and Accreditation

Calibrations at ECEFast are accredited by NATA to ISO/IEC 17025 standards. We are specialists in providing calibration and instrumentation for temperature and humidity with 85 years accumulative experience in the field. A NATA calibration gives measurements unbroken traceability to the Australian National Measurement Institute (NMI).

### 2. A Single Reliable Destination for Your Measurement Requirements

Whether you need help to set up your measurement and control; need technical advices; get your equipment calibrated; or buy new equipment with or without calibration, we can assist you with all of those. You do not have to look anywhere else. Choosing ECEFast will save you time and cost in selecting the services and products that you need.

### 3. Extensive Range of Accreditation

ECEFast provides accredited calibrations for a wide range of temperature and humidity for different types of tests and equipment. This wide coverage will save you time in selecting different suppliers to calibrate all your equipment - just send them all to us.

### 4. Australian-wide On-site Calibration Services

If your equipment cannot be sent off-site for calibration; and you want the calibration done on-site in a specific timeframe that suits your operation; we will come to you. Our on-site calibration teams based in different locations cover all sites across Australia with a flexible schedule.

### 5. Flexible Service Options

You can choose standard (5-10 business days) or fast turnaround (4 days or less) services, in-house or on-site services, and pick-up or delivery. Our flexible capability means that you can optimise the efficiency of your operation.



## Industries Served

- Life Sciences and Healthcare
- General Manufacturing
- Food Manufacturing
- Hospitality
- Mining, Oil and Gas
- Water and Waste Management
- Construction Materials
- Plastic and Glass



## In-house Calibration Capability

### Temperature from -196oC to 1300oC

- Thermocouples
- Digital thermometers and indicator systems
- Ancillary temperature measuring instruments including indicators, recorders, and controllers
- Dryblock calibrators
- Radiation pyrometers
- IR thermometers and thermal imagers
- Data loggers, sensors, and simulators
- Temperature transducers
- Surface probes
- Liquid-in-glass
- Temperature calibrators

### Relative humidity from 10% to 95% at 10°C to 90°C

- Hygrometers
- Humidity logger and measuring equipment

## On-site Calibration Capability

We can calibrate multiple points for temperature and humidity on-site.

### Temperature from -196°C to 1300°C

### Relative humidity from 10% to 95% at 10°C to 90°C

Spatial uniformity, temporal uniformity, and temperature and humidity verification for:

- Autoclaves and sterilising ovens
- Baths
- Environmental chambers
- Fridges and Freezers
- Ovens and Furnaces
- Incubators
- Medical/Blood Fridges according to AS 3864.2

**[www.ecefast.com.au](http://www.ecefast.com.au)**



## Capability of Measurement and Calibration

Product	Range	Measurement of Uncertainty
Radiation pyrometers	-30°C to 1200°C	1.5°C from -30°C to 300°C
Thermal Imaging System		2.5°C above 300°C to 500°C 3.5°C above 500°C to 1200°
Liquid in glass (LIG) thermometers	Icepoint only	0.01°C at 0°C
Base metal thermocouples	-196°C to 1300°C	0.5°C + 0.1% T from -196°C to below -40°C
Bimetallic system		0.2°C + 0.1% T from -40°C to 650°C 0.2°C + 0.2% T above 650°C to 1300°C
Surface probes	0°C to 650°	2.9°C
Digital temperature measuring systems	-196°C to 1300°C	0.25°C from -196°C to below -40°C
Temperature loggers - Single and multi channels		0.005°C at 0°C (using RTD sensors) 0.05°C from -40°C to 300°C 0.25°C above 300°C to 650°C 3°C above 650°C to 1300°C
Metallic resistance thermistors	-80°C to 650°	0.20°C from -80°C to below -20°C 0.05°C from -20°C to 0°C 0.01°C at 0°C 0.05°C above 0°C to 300°C 0.25°C above 300°C to 650°C
Rare metal thermocouples	0°C to 1300°C	(3 + 0.002E) µV
Dry block calibrators	-90°C to 1200°C	0.25°C from -90°C to -30°C 0.5°C above -30°C to 650°C 2.5°C above 650°C to 1200°C
Environmental chambers - Humidity and Temperature	10%RH to 95%RH from 10°C to 90°C	2.50%
Autoclaves and sterilising ovens	-196°C to 1300°C	0.5°C from -196°C to -40°C
Baths		0.25°C above -40°C to 0°C
Environmental chambers - Temperature		0.5°C above 0°C to 500°C
Fridges and Freezers		2.5°C above 500°C to 1300°C
Furnaces and Ovens		
Incubators		
Medical refrigeration equipment including blood fridges	-196°C to 20°C	0.5°C from -196°C to -40°C 0.25°C above -40°C to 0° 0.5°C above 0°C to 20°C

## Contact Us

<b>NATA Calibration Services</b>	03 9538 8175	or	natalab@ecefaste.com.au	for in-house calibration
			nataonsite@ecefaste.com.au	for on-site calibration
<b>General Services</b>	1800 811 818	or	sales@ecefaste.com.au	



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