Scope of Accreditation

ACCREDITATION NO: 5473

ECEFast

Fastlab Calibration Laboratory
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FACILITIES: Public testing service

This laboratory complies with the requirements of ISO/IEC 17025 (2005)
Their least uncertainties of measurement are expressed as expanded uncertainties (±)

1.80 Calibration of temperature measuring equipment

.01 Rare metal thermocouples
with least uncertainties of measurement of -
(3 + 0.002E) µV from 0 to 1300°C
by the methods of -
TMC 1.1

.02 Base metal thermocouples
with least uncertainties of measurement of -
0.5°C + 0.1% T from -196 to -40°C
0.2°C + 0.1% T from -40 to 650°C
0.2°C + 0.2% T from 650 to 1300°C
by the methods of -
TMC 1.2

.05 Metallic resistance thermometers
Industrial type resistance thermometer sensors
with least uncertainties of measurement of -
0.20°C from -80 to -20°C
0.05°C from -20 to 0°C
0.01°C at 0°C
0.05°C from 0 to 300 °C
0.25°C from 300 to 650°C
by the methods of -

Scope of Accreditation

TMC 1.3

.07 Surface probes
with least uncertainties of measurement of -
2.5˚C from 0°C to 650°C
by the methods of -
TMC 1.2 and TMC 1.4

.08 Extension wires for rare metal thermocouples
with least uncertainties of measurement of -
as under class 1.80.01 from 0 to 50°C

.09 Extension wires for base metal thermocouples
with least uncertainties of measurement of -
as under class 1.80.02 from 0 to 50°C

.11 Liquid-in-glass thermometers
with least uncertainty of measurement of -
0.01 °C at 0°C

.13 Radiation pyrometers
with least uncertainties of measurement of -
1.5˚C from -30 to 300˚C
2.5˚C from 300 to 500˚C
3.5˚C from 500 to 1200˚C
by the methods of -
TMC 8.0

.14 Thermal imaging systems
with least uncertainties of measurement as under class 1.80.13

.23 Bimetallic systems
with least uncertainty of measurement of -
0.5°C from 0˚C to 250˚C

.41 Digital temperature indicator systems
with least uncertainties of measurement of -
0.25˚C from -196 to -40˚C
0.005˚C at 0°C (Using RTD sensors)
0.05˚C from -40 to 300˚C
0.25˚C from 300 to 650˚C
3˚C from 650 to 1300˚C
by the methods of -
TMC 1.4

1.81 Calibration of ancillary temperature measuring instruments

.04 Indicators, recorders and controllers
Including temperature instrument calibrators
with least uncertainties of measurement of -
0.2°C + 0.01% range
by the methods of-
TMC 2.1

Scope of Accreditation

1.83 Hygrometry

.10 Calibration of humidity measuring devices
with least uncertainties of measurement of -
2% RH from 20 to 25°C and in the range 10% to 95% RH
by the methods of -
TMC 4.2

.20 Measurement of relative humidity
with least uncertainties of measurement of -
as under class 1.83.10

1.84 Testing of controlled enclosures

.01 Ovens and Furnaces
with least uncertainties of measurement of -
0.5°C from 0 to 500°C
2.5°C from 500 to 1300°C
by the methods of -
AS2853, TMC 3.1 and TMC 7.5

.02 Incubators
with least uncertainties of measurement of -
0.5°C from 0 to 250°C

.03 Autoclaves and sterilising ovens
with least uncertainties of measurement of -
1°C from ambient to 200°C
by the methods of -
TMC 3.2

.04 Industrial freezers
with least uncertainties of measurement of -
0.5°C from -196 to -40°C
0.25°C from -40 to 0°C
by the methods of -
TMC 3.3 and TMC 7.5

.05 Dry block calibrators
with least uncertainties of measurement of -
0.25°C from -90 to -30°C
0.5°C from -30 to 650°C
2.5°C from 650 to 1200°C
by the methods of -
EA 10/13

.06 Baths
with least uncertainties of measurement of -
0.5°C from 0 to 500°C
2.5°C from 500 to 1300°C
by the methods of -
AS2853, TMC 3.1 and TMC 7.5

.08 Environmental Chambers (Humidity)

Scope of Accreditation

with least uncertainties of measurement of -
2.5% RH from -40 to 180˚C and in the range 10% to 95% RH
by the methods of -
TMC 4.1

.15 Medical refrigeration equipment
Including on site calibration
Temperature verification and calibrations as listed in AS3864.2
with least uncertainties of measurement of -
0.5°C from -196 to -40°C
0.25°C from -40 to 0°C
0.5°C from 0 to 20°C
Including the following enclosure types:
blood fridges (upright, single & multi-door, under bench and walk-in rooms)
and plasma freezers (ultra-low, upright, chest and walk-in rooms)
Excluding clause 3.6.4 of AS 3864.2

Accreditation No: 5473
(Scope Last Changed 20/10/14)