



Temprecord International Limited

Client Number 6964

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Telephone 09 274-9825

www.temprecord.com

Authorised Representative

Mr Hussein Kadhum
Laboratory Manager

Programme

Metrology & Calibration Laboratory

Accreditation Number 814

Initial Accreditation Date 4 March 2002

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

5.35 Hygrometry
5.61 Temperature Measuring Equipment

Key Technical Personnel

Mr Hussein Kadhum	5.35, 5.61
Mrs Eleanor Miguel	5.35, 5.61
Mrs Leila Prasad	5.35, 5.61

Operations Manager
Authorisation:

Issue 36

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Calibration and Measurement Capabilities (CMC) are expressed as an expanded uncertainty corresponding to a level of confidence of 95 % ^{Note1}.

Measurement results are traceable to the International System of Units (SI) via an unbroken chain of comparisons to the New Zealand National Standards or to the National Standards of other Signatories to the CIPM MRA.

Unless stated elsewhere in this schedule, calibrations are performed at the premises of the accredited laboratory.

5.35 Hygrometry

Measurand/Range	Parameter	CMC Uncertainty
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(a) Humidity measuring devices

In accordance with an in-house method by comparison to a chilled mirror hygrometer. Two-point calibration of relative humidity loggers to cover the range

12 %RH to 85 %RH	Dry bulb 20 °C to 30 °C Dew point -6 °C to 23 °C	3.0 %RH
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5.61 Temperature Measuring Equipment

(including temperature calibration of electronic and glass thermometers)

(e) Thermistors and other semi-conductor thermometers

Temprecord loggers in accordance with an in-house method by comparison to reference thermometers.

Loggers with internal sensors

Nominal Temperature	CMC	Routinely reported for a three-point calibration covering the range -20 °C to 50 °C with an expanded uncertainty of ± 0.2 °C
-15 °C	0.061 °C	
-0 °C	0.061 °C	
40 °C	0.061 °C	

Loggers with external sensors (sensors housed in probes) in stirred liquid baths

Nominal Temperature	CMC	Routinely reported for a three-point calibration with an expanded uncertainty of
-196 °C	0.63 °C	
-90 °C to 110 °C	0.51 °C	± 0.8 °C
-38 °C to 110 °C	0.2 °C	
-15 °C to 110 °C	0.1 °C	± 0.2 °C
-15 °C to 50 °C	0.08 °C	

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Note 1:

Unless stated otherwise the CMC is based on the performance of the best available device and measurement uncertainties achieved for specific calibrations may be greater than the CMC Uncertainty. A laboratory may not report measurement uncertainties lower than its CMC. However, if the device under calibration has a greater accuracy than the device used to calculate the CMC the laboratory may be able to use the calibration data to lower its CMC Uncertainty. Please contact the laboratory to discuss your specific requirements.

Operations Manager
Authorisation:

A handwritten signature in black ink, appearing to read 'A. H. O. M. A.', is written over a light blue horizontal line.

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