



**Temprecord International Limited**

**Client Number 6964**

PO Box 58430, Botany, Auckland, 2163  
Unit D, 239 Burswood Drive, Burswood, Auckland, 2013

**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**

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

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**SCOPE OF ACCREDITATION**

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Calibration and Measurement Capabilities (CMC) are expressed as an expanded uncertainty corresponding to a level of confidence of 95 % <sup>Note1</sup>.

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

#### (a) Humidity measuring devices

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

Range	CMC Uncertainty
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12 %RH to 85 %RH	3.0 %RH
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at a dry bulb temperature range of 20 °C to 30 °C and a dew point range of -6 °C to 23 °C

### 5.61 Temperature Measuring Equipment

(including temperature calibration of electronic thermometers)

#### (e) Thermistors and other semi-conductor thermometers: thermistor based Temprecord loggers

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

Three point calibration

Loggers with internal sensors

Routinely reported with an uncertainty of 0.20 °C over the range -20 °C to 50 °C.

Nominal temperatures	CMC Uncertainty
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-15 °C	0.061 °C
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0 °C	0.061 °C
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40 °C	0.061 °C
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Loggers with external sensors (sensors housed in probes) in stirred liquid baths at with three Calibration Points

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## CERTIFICATE OF ACCREDITATION



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Nominal Temperature	CMC	Routinely reported with an Uncertainty of
-196 °C	0.63 °C	±0.8 °C
-90 °C to 110 °C	0.51 °C	
-38 °C to 110 °C	0.2 °C	±0.2 °C
-15 °C to 110 °C	0.1 °C	
-15 °C to 50 °C	0.08 °C	

## Note 1:

Unless stated otherwise the CMC uncertainty is based on the performance of the best commercially 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 uncertainty. However, if the device under calibration has a greater accuracy than the device used to calculate the CMC uncertainty the laboratory may be able to use the calibration data to lower its CMC. Please contact the laboratory to discuss your specific requirements.

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