



Temprecord International Limited

Client Number 6964

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Telephone 09 274-9825

www.temprecord.com

Authorised Representative

Mr Melvin Paul
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 Joanne Chen	5.35, 5.61
Mrs Rosalie Hight	5.35, 5.61
Mrs Eleanor Miguel	5.35, 5.61
Mr Melvin Paul	5.61
Mrs Leila Prasad	5.61

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Calibration and Measurement Capabilities (CMC) are expressed as an expanded uncertainty with a level of confidence of approximately 95 % ($k = 2$) ^{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

(a) Humidity measuring devices

In accordance to an in-house method by comparison to a chilled mirror hygrometer.
 Single point calibration of relative humidity loggers in the range below
 Two point calibration of relative humidity loggers, routinely reported with uncertainty of 3 %RH over the range below

Range	CMC Uncertainty
12 %RH to 85 %RH	1.0 %RH

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
-15 °C	0.061 °C
0 °C	0.061 °C
40 °C	0.061 °C

Loggers with external sensors (sensors housed in probes)
 Routinely reported with an uncertainty of 0.20 °C over the range -38 °C to 50 °C when calibrated in the stirred liquid bath, or 0.80 °C over the range -90 °C to 100 °C when calibrated in the dry block.

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Single point calibration

Loggers with external sensors (sensors housed in probes)

-196 °C	0.62 °C
-90 °C to -38 °C	0.51 °C
-38 °C to 130 °C	0.04 °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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