Laboratory Accreditation Programmes

Schedule to

CERTIFICATE OF ACCREDITATION

Temprecord International Limited **Client Number 6964**

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Authorised Representative
Hussein Kadhum
Lab/Manufacturing 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
Mrs Eleanor Miguel	5.35, 5.61
Mrs Leila Prasad	5.61

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

(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
12 %RH to 85 %RH	3.0 %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.

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.