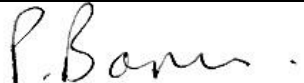


Laboratory Accreditation Programmes

Schedule to

CERTIFICATE OF ACCREDITATION

Laboratory	Temprecord International Limited	
Address	PO Box 58430, Botany, Auckland, 2163 Unit D, 239 Burswood Drive, Burswood, Auckland, 2013	
Telephone	09 274-9825	
URL	www.temprecord.com	
Authorised Representative	Mr Luka Bartolec Laboratory Manager	
Client No.	6964	
Programme	Metrology & Calibration Laboratory	
Accreditation Number	814	
Initial Accreditation Date	4 March 2002	
Conformance Standard	NZS ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories	
Testing Services Summary	5.35	Hygrometry
	5.61	Temperature Measuring Equipment
Signatories	Mr Luka Bartolec	5.35, 5.61
	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

Authorised: General Manager		Issue 27	Date: 15/05/19	Page 1 of 3
--------------------------------	---	----------	----------------	-------------

Schedule to

CERTIFICATE OF ACCREDITATION

Temprecord International Limited
 Metrology & Calibration Laboratory
SCOPE OF ACCREDITATION

Accreditation No 814

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.

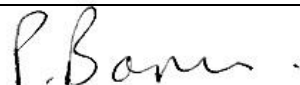
Three point calibration

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.

Authorised:
 General Manager



Issue 27

Date: 15/05/19

Page 2 of 3

Schedule to

CERTIFICATE OF ACCREDITATION

Temprecord International Limited
 Metrology & Calibration Laboratory
SCOPE OF ACCREDITATION

Accreditation No 814

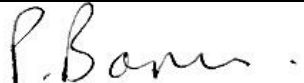
Single point calibration

Loggers with external sensors (sensors housed in probes)

-196 °C	0.18 °C
-90 °C to -38 °C	0.51 °C
-38 °C to 130 °C	0.04 °C

Note 1:

Unless stated otherwise the CMC is based on the performance of the best commercially available device and measurement uncertainties achieved for specific calibrations may be greater than the CMC. 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. Please contact the laboratory to discuss your specific requirements.

Authorised: General Manager		Issue 27	Date: 15/05/19	Page 3 of 3
--------------------------------	---	----------	----------------	-------------