



CERTIFICATE OF CALIBRATION

ACCREDITED CERTIFICATE NUMBER: NC-24-07-08-457

Device Name: Cryo-Temp

Calibration laboratory environmental conditions: 18 °C – 25 °C, 20 %RH – 55 %RH

Serial Number: S95311

Calibration Date: 2024-07-08

Device ID: MultiChannel

Issued to: Wessex Power Technology Ltd
Blandford Forum, Dorset DT11 9EX
United Kingdom

Madgetech Calibration Laboratory uses the shared risk approach as defined in ILAC G8 when making compliance statements

Cryo-Temp

- Temperature -

Serial Number: S95311

Published Device Specifications

Calibrated using Madgetech WI No: 320409

Calibrated Accuracy: $\pm 1.0^{\circ}\text{C}$

Resolution: 0.1°C

Calibrated Accuracy Range: -86°C to 35°C

Channel 1 - Units of °C

Expanded Uncertainty is not applied to Device Error

Temperature	Standard	DUT Corrected	Device Error	Expanded Uncertainty
Env. Temperature	Actual Test Point	Device As Left	= Device - Standard	Expressed at approx. 95% confidence level using coverage factor k = 2
-	-79.907	-79.9	0.007	0.067
-	24.99	25.0	0.01	0.32

Applied Correction Values

Gain: 1.0062653

Offset: -0.11°C

Reference Equipment	Serial #	Certificate #	Last Calibration Date	Next Calibration Due
Fluke / Fluke 1502A / 5615	B24056 / 4991681	2024008897	2024-04-17	2024-10-17
Vaisala HMP155	P3420160	2024006692	2024-03-28	2024-09-28

Last date
2024-07-08
NC-24-07-08-457
Due date

Calibration Notes:

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09

MadgeTech, Inc. Calibration laboratory located at 6 Warner Road Warner, NH 03278 603-456-2011

The instrument identified was calibrated as a direct comparison to the reference standards listed which are traceable to the International System of Units (SI) through NIST or other National Metrology Institute and did not involve any sampling. Results reported on this certificate relate only to the serial number referenced at the time of calibration and do not imply certification of the device, process, system or technician by ANAB, NIST or any other federal agency. No allowance has been made for the stability of the device due to use, time, or wear. Such allowances would be made by the user. This certificate may not be reproduced, except in full, without written approval by MadgeTech, Inc.

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Certificate Number NC-24-07-08-457

QMS Form No. 421000 Rev 23



CERTIFICATE OF CALIBRATION

ACCREDITED CERTIFICATE NUMBER: NC-24-07-08-446

Device Name: Cryo-Temp Calibration laboratory environmental conditions: 18 °C - 25 °C, 20 %RH
Serial Number: S95310 Calibration Date: 2024-07-08

Device ID: MultiChannel
Issued to: Wessex Power Technology Ltd
Blandford Forum, Dorset DT11 9EX
United Kingdom
Madgetech Calibration Laboratory uses the shared risk approach as defined in ILAC G8 when compliance statements

Cryo-Temp **- Temperature -** **Serial Number**
Published Device Specifications **Calibrated using Madgetech WI No: 3**

Calibrated Accuracy: ±1.0 °C **Resolution:** 0.1 °C
Calibrated Accuracy Range: -86 °C to 35 °C

Channel 1 - Units of °C Expanded Uncertainty is not applied to D

Temperature	Standard	DUT Corrected	Device Error	Expanded Uncertainty
Env. Temperature	Actual Test Point	Device As Left	= Device - Standard	Expressed at approx. 95% confidence using coverage factor k
-	-79.907	-79.9	0.007	0.067
-	24.99	25.0	0.01	0.32

Applied Correction Values

Gain: 1.0067903
Offset: -0.12 °C

Reference Equipment	Serial #	Certificate #	Last Calibration Date	Next Calibration Date
Fluke / Fluke 1502A / 5615	B24056 / 4991681	2024008897	2024-04-17	2024-10-17
Vaisala HMP155	P3420160	2024006692	2024-03-28	2024-09-28

Last date
2024-07-08
NC-24-07-08-446
Due date

Calibration Notes:

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09

The instrument identified was calibrated as a direct comparison to the reference standards listed which are traceable to the International System of Units (SI) through NIST or other National Metrology Institute and did not involve any sampling. Results reported on this certificate relate only to the serial number referenced at the time of calibration and do not imply certification of the device, process, system or technician by ANAB, NIST or any other federal agency. No allowance has been made for the stability of the device due to use, time, or wear. Such allowances would be made by the user. This certificate may not be reproduced, except in full, without written approval by MadgeTech, Inc.

MadgeTech, Inc. Calibration laboratory located at 6 Warner Road Warner, NH 03278 603-456-2011



CERTIFICATE OF CALIBRATION

ACCREDITED CERTIFICATE NUMBER: NC-24-07-08-443

Device Name: Cryo-Temp
Serial Number: S95306

Calibration laboratory environmental conditions: 18 °C – 25 °C, 20 %RH – 55 %RH
Calibration Date: 2024-07-08

Device ID: MultiChannel
Issued to: Wessex Power Technology Ltd
Blandford Forum, Dorset DT11 9EX
United Kingdom

MadgeTech Calibration Laboratory uses the shared risk approach as defined in ILAC G8 when making compliance statements

Cryo-Temp **Serial Number: S95306**
Published Device Specifications **- Temperature -** **Calibrated using MadgeTech WI No: 320409**

Calibrated Accuracy: $\pm 1.0^{\circ}\text{C}$ **Resolution:** 0.1°C
Calibrated Accuracy Range: -86°C to 35°C

Channel 1 - Units of $^{\circ}\text{C}$ Expanded Uncertainty is not applied to Device Error

Temperature	Standard	DUT Corrected	Device Error	Expanded Uncertainty
Env. Temperature	Actual Test Point	Device As Left	= Device - Standard	Expressed at approx. 95% confidence level using coverage factor k = 2
-	-79.907	-79.9	0.007	0.067
-	24.99	25.0	0.01	0.32

Applied Correction Values

Gain: 1.0059645
Offset: 0.01°C

Reference Equipment	Serial #	Certificate #	Last Calibration Date	Next Calibration Due
Fluke / Fluke 1502A / 5615	B24056 / 4991681	2024008897	2024-04-17	2024-10-17
Vaisala HMP155	P3420160	2024006692	2024-03-28	2024-09-28

Last date
2024-07-08
NC-24-07-08-443
Due date

Calibration Notes:

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Stone

Date:

2024-07-09

MadgeTech, Inc. Calibration laboratory located at 6 Warner Road Warner, NH 03278 603-456-2011

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Certificate Number NC-24-07-08-443

QMS Form No. 421000 Rev 23



CERTIFICATE OF CALIBRATION

ACCREDITED CERTIFICATE NUMBER: NC-24-07-08-451

Device Name: Cryo-Temp Calibration laboratory environmental conditions: 18 °C – 25 °C, 20 %RH – 55 %RH
Serial Number: S95308 Calibration Date: 2024-07-08

Device ID: MultiChannel Madgetech Calibration Laboratory uses the shared risk approach as defined in ILAC G8 when making
Issued to: Wessex Power Technology Ltd compliance statements
Blandford Forum, Dorset DT11 9EX
United Kingdom

Cryo-Temp **- Temperature -** **Serial Number: S95308**
Published Device Specifications **Calibrated using Madgetech WI No: 320409**

Calibrated Accuracy: ±1.0 °C **Resolution:** 0.1 °C
Calibrated Accuracy Range: -86 °C to 35 °C

Channel 1 - Units of °C Expanded Uncertainty is not applied to Device Error

Temperature	Standard	DUT Corrected	Device Error	Expanded Uncertainty
Env. Temperature	Actual Test Point	Device As Left	= Device - Standard	Expressed at approx. 95% confidence level using coverage factor k = 2
-	-79.907	-79.9	0.007	0.067
-	24.99	25.0	0.01	0.32

Applied Correction Values
Gain: 1.0053163
Offset: -0.07 °C

Reference Equipment	Serial #	Certificate #	Last Calibration Date	Next Calibration Due
Fluke / Fluke 1502A / 5615	B24056 / 4991681	2024008897	2024-04-17	2024-10-17
Vaisala HMP155	P3420160	2024006692	2024-03-28	2024-09-28

Last date
2024-07-08
NC-24-07-08-451
Due date

Calibration Notes:

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09

MadgeTech, Inc. Calibration laboratory located at 6 Warner Road Warner, NH 03278 603-456-2011

The instrument identified was calibrated as a direct comparison to the reference standards listed which are traceable to the International System of Units (SI) through NIST or other National Metrology Institute and did not involve any sampling. Results reported on this certificate relate only to the serial number referenced at the time of calibration and do not imply certification of the device, process, system or technician by ANAB, NIST or any other federal agency. No allowance has been made for the stability of the device due to use, time, or wear. Such allowances would be made by the user. This certificate may not be reproduced, except in full, without written approval by MadgeTech, Inc.



CERTIFICATE OF CALIBRATION

ACCREDITED CERTIFICATE NUMBER: NC-24-07-08-439

Device Name: Cryo-Temp
Serial Number: S95317

Calibration laboratory environmental conditions: 18 °C – 25 °C, 20 %RH – 55 %RH
Calibration Date: 2024-07-08

Device ID: MultiChannel
Issued to: Wessex Power Technology Ltd
Blandford Forum, Dorset DT11 9EX
United Kingdom

Madgetech Calibration Laboratory uses the shared risk approach as defined in ILAC G8 when making compliance statements

Cryo-Temp

- Temperature -

Serial Number: S95317

Published Device Specifications

Calibrated using Madgetech WI No: 320409

Calibrated Accuracy: $\pm 1.0^{\circ}\text{C}$ Resolution: 0.1°C
Calibrated Accuracy Range: -86°C to 35°C

Channel 1 - Units of $^{\circ}\text{C}$

Expanded Uncertainty is not applied to Device Error

Temperature	Standard	DUT Corrected	Device Error	Expanded Uncertainty
Env. Temperature	Actual Test Point	Device As Left	= Device - Standard	Expressed at approx. 95% confidence level using coverage factor k = 2
-	-79.907	-79.9	0.007	0.067
-	24.99	25.0	0.01	0.32

Applied Correction Values

Gain: 1.0064932
Offset: -0.01°C

Reference Equipment	Serial #	Certificate #	Last Calibration Date	Next Calibration Due
Fluke / Fluke 1502A / 5615	B24056 / 4991681	2024008897	2024-04-17	2024-10-17
Vaisala HMP155	P3420160	2024006692	2024-03-28	2024-09-28

Last date
2024-07-08
NC-24-07-08-439
Due date

Calibration Notes:

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09

MadgeTech, Inc. Calibration laboratory located at 6 Warner Road Warner, NH 03278 603-456-2011

The instrument identified was calibrated as a direct comparison to the reference standards listed which are traceable to the International System of Units (SI) through NIST or other National Metrology Institute and did not involve any sampling. Results reported on this certificate relate only to the serial number referenced at the time of calibration and do not imply certification of the device, process, system or technician by ANAB, NIST or any other federal agency. No allowance has been made for the stability of the device due to use, time, or wear. Such allowances would be made by the user. This certificate may not be reproduced, except in full, without written approval by MadgeTech, Inc.



CERTIFICATE OF CALIBRATION

ACCREDITED CERTIFICATE NUMBER: NC-24-07-08-458

Device Name: Cryo-Temp Calibration laboratory environmental conditions: 18 °C – 25 °C, 20 %RH – 55 %RH
Serial Number: S95322 Calibration Date: 2024-07-08

Device ID: MultiChannel MadgeTech Calibration Laboratory uses the shared risk approach as defined in ILAC G8 when making
Issued to: Wessex Power Technology Ltd compliance statements
Blandford Forum, Dorset DT11 9EX
United Kingdom

Cryo-Temp - Temperature - Serial Number: S95322
Published Device Specifications Calibrated using MadgeTech WI No: 320409

Calibrated Accuracy: ±1.0 °C Resolution: 0.1 °C
Calibrated Accuracy Range: -86 °C to 35 °C

Channel 1 - Units of °C Expanded Uncertainty is not applied to Device Error

Temperature	Standard	DUT Corrected	Device Error	Expanded Uncertainty
Env. Temperature	Actual Test Point	Device As Left	= Device - Standard	Expressed at approx. 95% confidence level using coverage factor k = 2
-	-79.907	-79.9	0.007	0.067
-	24.99	25.0	0.01	0.32

Applied Correction Values
Gain: 1.0065097
Offset: -0.03 °C

Reference Equipment	Serial #	Certificate #	Last Calibration Date	Next Calibration Due
Fluke / Fluke 1502A / 5615	B24056 / 4991681	2024008897	2024-04-17	2024-10-17
Vaisala HMP155	P3420160	2024006692	2024-03-28	2024-09-28

Last date
2024-07-08
NC-24-07-08-458
Due date

Calibration Notes:

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09

The instrument identified was calibrated as a direct comparison to the reference standards listed which are traceable to the International System of Units (SI) through NIST or other National Metrology Institute and did not involve any sampling. Results reported on this certificate relate only to the serial number referenced at the time of calibration and do not imply certification of the device, process, system or technician by ANAB, NIST or any other federal agency. No allowance has been made for the stability of the device due to use, time, or wear. Such allowances would be made by the user. This certificate may not be reproduced, except in full, without written approval by MadgeTech, Inc.

MadgeTech, Inc. Calibration laboratory located at 6 Warner Road Warner, NH 03278 603-456-2011

Certificate Page: 2 of 2

Certificate Number NC-24-07-08-458

QMS Form No. 421000 Rev 23



CERTIFICATE OF CALIBRATION

ACCREDITED CERTIFICATE NUMBER: NC-24-07-08-449

Device Name: Cryo-Temp
Serial Number: S95319

Calibration laboratory environmental conditions: 18 °C – 25 °C, 20 %RH – 55 %RH
Calibration Date: 2024-07-08

Device ID: MultiChannel
Issued to: Wessex Power Technology Ltd
Blandford Forum, Dorset DT11 9EX
United Kingdom

Madgetech Calibration Laboratory uses the shared risk approach as defined in ILAC G8 when making compliance statements

Cryo-Temp

- Temperature -

Serial Number: S95319

Published Device Specifications

Calibrated using Madgetech WI No: 320409

Calibrated Accuracy: $\pm 1.0^{\circ}\text{C}$ Resolution: 0.1°C
Calibrated Accuracy Range: -86°C to 35°C

Channel 1 - Units of $^{\circ}\text{C}$

Expanded Uncertainty is not applied to Device Error

Temperature	Standard	DUT Corrected	Device Error	Expanded Uncertainty
Env. Temperature	Actual Test Point	Device As Left	= Device - Standard	Expressed at approx. 95% confidence level using coverage factor k = 2
-	-79.907	-79.9	0.007	0.067
-	24.99	25.0	0.01	0.32

Applied Correction Values

Gain: 1.0060127
Offset: -0.05°C

Reference Equipment	Serial #	Certificate #	Last Calibration Date	Next Calibration Due
Fluke / Fluke 1502A / 5615	B24056 / 4991681	2024008897	2024-04-17	2024-10-17
Vaisala HMP155	P3420160	2024006692	2024-03-28	2024-09-28

Last date
2024-07-08
NC-24-07-08-449
Due date

Calibration Notes:

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09

MadgeTech, Inc. Calibration laboratory located at 6 Warner Road Warner, NH 03278 603-456-2011

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Certificate Page: 2 of 2

Certificate Number NC-24-07-08-449

QMS Form No. 421000 Rev 23



CERTIFICATE OF CALIBRATION

ACCREDITED CERTIFICATE NUMBER: NC-24-07-08-442

Device Name: Cryo-Temp
Serial Number: S95318

Calibration laboratory environmental conditions: 18 °C – 25 °C, 20 %RH – 55 %RH
Calibration Date: 2024-07-08

Device ID: MultiChannel
Issued to: Wessex Power Technology Ltd
Blandford Forum, Dorset DT11 9EX
United Kingdom

Madgetech Calibration Laboratory uses the shared risk approach as defined in ILAC G8 when making compliance statements

Cryo-Temp

- Temperature -

Serial Number: S95318

Published Device Specifications

Calibrated using Madgetech WI No: 320409

Calibrated Accuracy: $\pm 1.0^{\circ}\text{C}$
Calibrated Accuracy Range: -86°C to 35°C

Resolution: 0.1°C

Channel 1 - Units of $^{\circ}\text{C}$

Expanded Uncertainty is not applied to Device Error

Temperature	Standard	DUT Corrected	Device Error	Expanded Uncertainty
Env. Temperature	Actual Test Point	Device As Left	= Device - Standard	Expressed at approx. 95% confidence level using coverage factor k = 2
-	-79.907	-79.9	0.007	0.067
-	24.99	25.0	0.01	0.32

Applied Correction Values

Gain: 1.0065894
Offset: -0.01°C

Reference Equipment	Serial #	Certificate #	Last Calibration Date	Next Calibration Due
Fluke / Fluke 1502A / 5615	B24056 / 4991681	2024008897	2024-04-17	2024-10-17
Vaisala HMP155	P3420160	2024006692	2024-03-28	2024-09-28

Last date
2024-07-08
NC-24-07-08-442
Due date

Calibration Notes:

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09

MadgeTech, Inc. Calibration laboratory located at 6 Warner Road Warner, NH 03278 603-456-2011

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Certificate Page: 2 of 2

Certificate Number NC-24-07-08-442

QMS Form No. 421000 Rev 23



CERTIFICATE OF CALIBRATION

ACCREDITED CERTIFICATE NUMBER: NC-24-07-08-438

Device Name: Cryo-Temp Calibration laboratory environmental conditions: 18 °C - 25 °C, 20 %RH - 55 %RH
Serial Number: S95315 Calibration Date: 2024-07-08

Device ID: MultiChannel Madgetech Calibration Laboratory uses the shared risk approach as defined in ILAC G8 when making
Issued to: Wessex Power Technology Ltd compliance statements
Blandford Forum, Dorset DT11 9EX
United Kingdom

Cryo-Temp - Temperature - Serial Number: S95315
Published Device Specifications Calibrated using Madgetech WI No: 320409

Calibrated Accuracy: ±1.0 °C Resolution: 0.1 °C
Calibrated Accuracy Range: -86 °C to 35 °C

Channel 1 - Units of °C Expanded Uncertainty is not applied to Device Error

Temperature	Standard	DUT Corrected	Device Error	Expanded Uncertainty
Env. Temperature	Actual Test Point	Device As Left	= Device - Standard	Expressed at approx. 95% confidence level using coverage factor k = 2
-	-79.907	-79.9	0.007	0.067
-	24.99	25.0	0.01	0.32

Applied Correction Values

Gain: 1.0059723
Offset: 0 °C

Reference Equipment	Serial #	Certificate #	Last Calibration Date	Next Calibration Due
Fluke / Fluke 1502A / 5615	B24056 / 4991681	2024008897	2024-04-17	2024-10-17
Vaisala HMP155	P3420160	2024006692	2024-03-28	2024-09-28

Last date
2024-07-08
NC-24-07-08-438
Due date

Calibration Notes:

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09

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MadgeTech, Inc. Calibration laboratory located at 6 Warner Road Warner, NH 03278 603-456-2011



CERTIFICATE OF CALIBRATION

ACCREDITED CERTIFICATE NUMBER: NC-24-07-08-445

Device Name: Cryo-Temp Calibration laboratory environmental conditions: 18 °C – 25 °C, 20 %RH – 55 %RH
Serial Number: S95316 Calibration Date: 2024-07-08

Device ID: MultiChannel
Issued to: Wessex Power Technology Ltd
Blandford Forum, Dorset DT11 9EX
United Kingdom
Madgetech Calibration Laboratory uses the shared risk approach as defined in ILAC G8 when making compliance statements

Cryo-Temp **- Temperature -** **Serial Number: S95316**
Published Device Specifications **Calibrated using Madgetech WI No: 320409**

Calibrated Accuracy: ±1.0 °C **Resolution:** 0.1 °C
Calibrated Accuracy Range: -86 °C to 35 °C

Channel 1 - Units of °C **Expanded Uncertainty is not applied to Device Error**

Temperature	Standard	DUT Corrected	Device Error	Expanded Uncertainty
Env. Temperature	Actual Test Point	Device As Left	= Device - Standard	Expressed at approx. 95% confidence level using coverage factor k = 2
-	-79.907	-79.9	0.007	0.067
-	24.99	25.0	0.01	0.32

Applied Correction Values

Gain: 1.0064136
Offset: -0.04 °C

Reference Equipment	Serial #	Certificate #	Last Calibration Date	Next Calibration Due
Fluke / Fluke 1502A / 5615	B24056 / 4991681	2024008897	2024-04-17	2024-10-17
Vaisala HMP155	P3420160	2024006692	2024-03-28	2024-09-28

Last date
2024-07-08
NC-24-07-08-445
Due date

Calibration Notes:

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09

MadgeTech, Inc. Calibration laboratory located at 6 Warner Road Warner, NH 03278 603-456-2011

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CERTIFICATE OF CALIBRATION

ACCREDITED CERTIFICATE NUMBER: NC-24-07-08-437

Device Name: Cryo-Temp
Serial Number: S95309

Calibration laboratory environmental conditions: 18 °C - 25 °C, 20 %RH - 55 %RH
Calibration Date: 2024-07-08

Device ID: MultiChannel
Issued to: Wessex Power Technology Ltd
Blandford Forum, Dorset DT11 9EX
United Kingdom

Madgetech Calibration Laboratory uses the shared risk approach as defined in ILAC G8 when making compliance statements

Cryo-Temp

- Temperature -

Serial Number: S95309

Published Device Specifications

Calibrated using Madgetech WI No: 320409

Calibrated Accuracy: $\pm 1.0^{\circ}\text{C}$ Resolution: 0.1°C
Calibrated Accuracy Range: -86°C to 35°C

Channel 1 - Units of $^{\circ}\text{C}$

Expanded Uncertainty is not applied to Device Error

Temperature	Standard	DUT Corrected	Device Error	Expanded Uncertainty
Env. Temperature	Actual Test Point	Device As Left	= Device - Standard	Expressed at approx. 95% confidence level using coverage factor k = 2
-	-79.907	-79.9	0.007	0.067
-	24.99	25.0	0.01	0.32

Applied Correction Values

Gain: 1.0059723
Offset: 0°C

Reference Equipment	Serial #	Certificate #	Last Calibration Date	Next Calibration Due
Fluke / Fluke 1502A / 5615	B24056 / 4991681	2024008897	2024-04-17	2024-10-17
Vaisala HMP155	P3420160	2024006692	2024-03-28	2024-09-28

Last date
2024-07-08
NC-24-07-08-437
Due date

Calibration Notes:

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09

MadgeTech, Inc. Calibration laboratory located at 6 Warner Road Warner, NH 03278 603-456-2011

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Certificate Number NC-24-07-08-437

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