



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

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

2024-07-08

Calibration Date:

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

Issued to: Device ID:

Blandford Forum, Dorset DT11 9EX

Wessex Power Technology Ltd

MultiChannel

United Kingdom

Serial Number: Device Name:

Cryo-Temp S95311

Published Device Specifications Cryo-Temp - Temperature -Calibrated using MadgeTech WI No: Serial Number: S95311 320409

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

Channel 1 - Units of °C

Expanded Uncertainty is not applied to Device Error

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

Applied Correction Values

Offset: Gain: 1.0062653 -0.11 °C

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

Last date 2024-07-08

NC-24-07-08-457 Due date

Certificate Page:

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Certificate Number NC-24-07-08-457

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09







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Device Name: Cryo-Temp S95310

Serial Number:

Issued to:

Device ID:

Blandford Forum, Dorset DT11 9EX Wessex Power Technology Ltd

MultiChannel

United Kingdom

Cryo-Temp

ACCREDITED CERTIFICATE NUMBER: NC-24-07-08-446 Calibration laboratory environmental conditions: 18 °C – 25 °C, 20 %RH -

Calibration Date: 2024-07-08

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

Published Device Specifications Temperature -Calibrated using MadgeTech WI No: 3 Serial Numb

Calibrated Accuracy Range: Calibrated Accuracy: ±1.0 °C

Channel 1 - Units of °C

Env. Temperature Temperature

Actual Test Point Standard

-79.907

24.99

-86 °C to 35 °C

Resolution: 0.1 °C

Expanded Uncertainty is not applied to D Expanded Uncerta

DUT Corrected Device As Left = Device - Standard **Device Error**

Expressed at approx. 95% confi

-79.9 25.0 0.007 0.01 using coverage factor 0.067 0.32

Applied Correction Values

Gain: Offset: 1.0067903

-0.12 °C

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

Last date 2024-07-08

NC-24-07-08-446

Due date

Certificate Page:

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£ 1

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09





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

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

2024-07-08

Calibration Date:

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

United Kingdom

Blandford Forum, Dorset DT11 9EX Wessex Power Technology Ltd

Issued to:

Device ID:

MultiChannel

Serial Number:

S95306

Cryo-Temp

Device Name:

Cryo-Temp Temperature -Serial Number: S95306

Calibrated Accuracy: **Calibrated Accuracy Range:** ±1.0 °C

Resolution: 0.1°C

Calibrated using MadgeTech WI No:

320409

Published Device Specifications

-86 °C to 35 °C

Channel 1 - Units of °C

Expanded Uncertainty is not applied to Device Error

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

Applied Correction Values

1.0059645

0.01°C

Gain: Offset:

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

Certificate Page:

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Certificate Number

NC-24-07-08-443

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

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

Calibration Date:

2024-07-08

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

United Kingdom

Blandford Forum, Dorset DT11 9EX Wessex Power Technology Ltd

Issued to:

Device ID:

MultiChannel

Serial Number: Device Name:

S95308 Cryo-Temp

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

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

Channel 1 - Units of °C

Resolution: 0.1 °C

Expanded Uncertainty is not applied to Device Error

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

Applied Correction Values

1.0053163

Offset: Gain: -0.07°C

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

Last date 2024-07-08

NC-24-07-08-451 Due date

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Certificate Number

NC-24-07-08-451

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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Serial Number:

Device Name:

Cryo-Temp S95317

MultiChannel

Issued to: Device ID:



CERTIFICATE OF CALIBRATION

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

Calibration laboratory environmental conditions:

18 °C – 25 °C, 20 %RH – 55 %RH 2024-07-08

Calibration Date:

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

United Kingdom

Blandford Forum, Dorset DT11 9EX Wessex Power Technology Ltd

Published Device Specifications Cryo-Temp - Temperature -Calibrated using MadgeTech WI No: Serial Number: S95317 320409

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

Channel 1 - Units of °C

Resolution: 0.1 °C

Expanded Uncertainty is not applied to Device Error

	C.C.I	10.0	100	
0.32	0.01	25.0	24 99	,
0.067	0.007	-79.9	-79.907	•
using coverage factor k = 2				
Expressed at approx. 95% confidence level	= Device - Standard	Device As Left	Actual Test Point	Env. Temperature
Expanded Uncertainty	Device Error	DUT Corrected	Standard	Temperature
	, ,			

Applied Correction Values

Offset: Gain: 1.0064932 -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

Certificate Page:

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Certificate Number

NC-24-07-08-439

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





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

Calibration laboratory environmental conditions:

18 °C – 25 °C, 20 %RH – 55 %RH

Calibration Date:

2024-07-08

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

Issued to: Device ID:

Blandford Forum, Dorset DT11 9EX

Wessex Power Technology Ltd

MultiChannel

United Kingdom

Serial Number: Device Name:

S95322

Cryo-Temp

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

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

Channel 1 - Units of °C

Resolution: 0.1 °C

Expanded Uncertainty is not applied to Device Error

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

Applied Correction Values

Offset: Gain: 1.0065097 -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

Certificate Page:

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Certificate Number NC-24-07-08-458

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09



Device Name:

Cryo-Temp S95319

MultiChannel

Serial Number:

Issued to: Device ID:

United Kingdom

Blandford Forum, Dorset DT11 9EX Wessex Power Technology Ltd



CERTIFICATE OF CALIBRATION

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

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

Calibration Date: 2024-07-08

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 Accuracy: ±1.0 °C Resolution: 0.1 °C Calibrated using MadgeTech WI No:

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

Expanded Uncertainty is not applied to Device Error

320409

Channel 1 - Units of °C

0.32	0.01	25.0	24.99	I
0.067	700,0	-79.9	-79.907	•
using coverage factor k = 2				
Expressed at approx. 95% confidence level	= Device - Standard	Device As Left	Actual Test Point	Env. Temperature
Expanded Uncertainty	Device Error	DUT Corrected	Standard	Temperature

Applied Correction Values

Gain: Offset: 1.0060127 -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

Certificate Page:

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Certificate Number NC-24-07-08-449

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09

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Certificate Page:

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Certificate Number

NC-24-07-08-449





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

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

Calibration Date: 2024-07-08

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

United Kingdom

Blandford Forum, Dorset DT11 9EX

Wessex Power Technology Ltd

MultiChannel

Issued to: Device ID: Serial Number: Device Name:

Cryo-Temp S95318

Published Device Specifications Cryo-Temp Temperature -Calibrated using MadgeTech WI No: Serial Number: S95318 320409

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

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

0.1 °C

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

Applied Correction Values

Gain: Offset: 1.0065894 -0.01 °C

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

Last date 2024-07-08

NC-24-07-08-442 Due date

Certificate Page:

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Certificate Number

NC-24-07-08-442

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





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

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

Calibration Date:

2024-07-08

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

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

MultiChannel

Serial Number: Device Name:

S95315 Cryo-Temp

United Kingdom

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

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

Channel 1 - Units of °C

Expanded Uncertainty is not applied to Device Error

0.1 °C

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

Applied Correction Values

1.0059723 0 °

Offset: Gain:

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

Last date 2024-07-08

NC-24-07-08-438 Due date

NC-24-07-08-438

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09





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

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

Calibration Date:

2024-07-08

 $\label{lem:madgeTech Calibration Laboratory uses the shared \it risk approach as defined in ILAC G8 when making compliance statements$

United Kingdom

Blandford Forum, Dorset DT11 9EX Wessex Power Technology Ltd Serial Number: Device Name:

S95316

Cryo-Temp

MultiChannel

Issued to: Device ID:

Calibrated using MadgeTech WI No: 320409		Published Device Specifications
Serial Number: S95310	- Temperature -	Cryo-Temp

Resolution: 0.1 °C

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

Calibrated Accuracy:

Channel 1 - Units of °C

Expanded Uncertainty is not applied to Device Error

0,1	0.01	25.0	24 99	1
0.067	0.007	-79.9	-79.907	
using coverage factor k = 2				
Standard Expressed at approx. 95% confidence level	= Device - Standard	t Device As Left	ature Actual Test Point	Env. Temperatur
e Error Expanded Uncertainty	d Device Error	DUT Corrected	ure Standard	Temperatur

Applied Correction Values

Gain: Offset: 1.0064136 -0.04 °C

Last date 2024-07-08

NC-24-07-08-445 Due date

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Certificate Number

NC-24-07-08-445

Calibrated By:

Daniel Woods

Approved By Quality Inspector:

James Howe

Date:

2024-07-09





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

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

Calibration Date:

2024-07-08

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

Issued to: Blandford Forum, Dorset DT11 9EX Wessex Power Technology Ltd Serial Number:

S95309 Cryo-Temp

Device Name:

Device ID:

MultiChannel

United Kingdom

Cryo-Temp Temperature -

Calibrated Accuracy: **Published Device Specifications** ±1.0 °C

-86 °C to 35 °C

Calibrated Accuracy Range:

Channel 1 - Units of °C

Resolution: 0.1 °C

Calibrated using MadgeTech WI No:

Serial Number: S95309

320409

Expanded Uncertainty is not applied to Device Error

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

Applied Correction Values

Offset: Gain: 1.0059723 0°0

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

Last date 2024-07-08

NC-24-07-08-437 Due date

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Certificate Number

NC-24-07-08-437

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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NC-24-07-08-437