CERTIFICATE OF CALIBRATION

ISSUED BY: THERMOSENSE LIMITED

CALIBRATED: 23 February 2024 **CERTIFICATE No:** 005240

UKAS CALIBRATION

21817

APPROVED SIGNATORY

Nelka Karunadasa MSc. BSc.

Thermosense® .CO.UK

All calibrations performed at:
Eton House
Eton Way North
Radcliffe
Lancashire
M26 2ZT

Tel: +44 (0)1628 531166

Customer:	DJB Labcare Ltd			**Order Reference:**	89796
Address:	Unit 12, Howard Way, Cromwell Business Centre, Newport pagnell, Buckinghamshire. MK16 9QS				
Device Description:	Welded Tip Thermocouple with Mini Plug				
Device Identity:	014216 32062-1 02/24	**Device Type:**	T Type Thermocouple		
Sensor Length:	N/A	**Sensor Diameter:**	N/A	**Immersion Depth:**	190/155
Procedure Used:	t2bah	**Calibration Points Requested:**	4	**Ambient Temperature:**	20.5°C ± 0.7°C
Equipment Used:	Isotech Venus 4951 Dry Block Calibrator (381785/1) /Ametek ATC-125-A Dry Block Calibrator (582176-00267) Isotech milliK & millisKanner (391730/2 & 20AS76/1)				
Reference(s) Used:	PRT (39876/3) / PRT (401201/2)				

The device was examined and found to be in a satisfactory condition.

Results annotated hereon are applicable only to the device(s) identified above.

Results of Calibration

Actual Temperature °C	UUT Temperature °C	Error °C	Uncertainty (±) °C
-40.015	-40.30	-0.285	0.50
4.024	3.88	-0.144	0.50
37.001	36.95	-0.051	0.50
100.044	99.94	-0.104	0.50

-----END OF RESULTS-----

Multiple Dry Block calibration using IEC 60584-1 (2013) Temperature Conversion and an ITS90 Scale.

First part of a THREE certificate set indicating FIRST, MIDDLE and LAST of the cable used on a manufactured batch.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. UKAS is one of the signatories to the Multilateral Agreement to the European co-operation Accreditation (EA) for the mutual recognition for calibration certificates issued by accredited laboratories. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units of measurement realised at the National Physical Laboratory or other recognised national metrological institute

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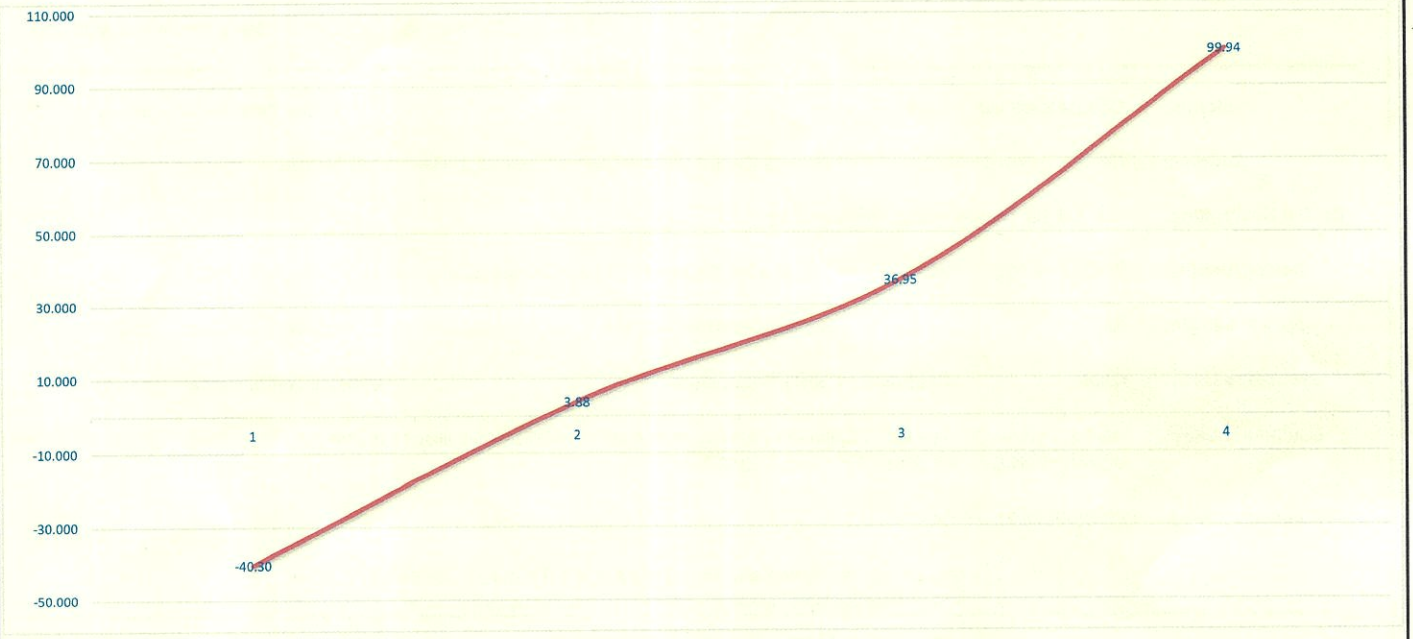
Supplementary and Supporting Calibration Information and Data

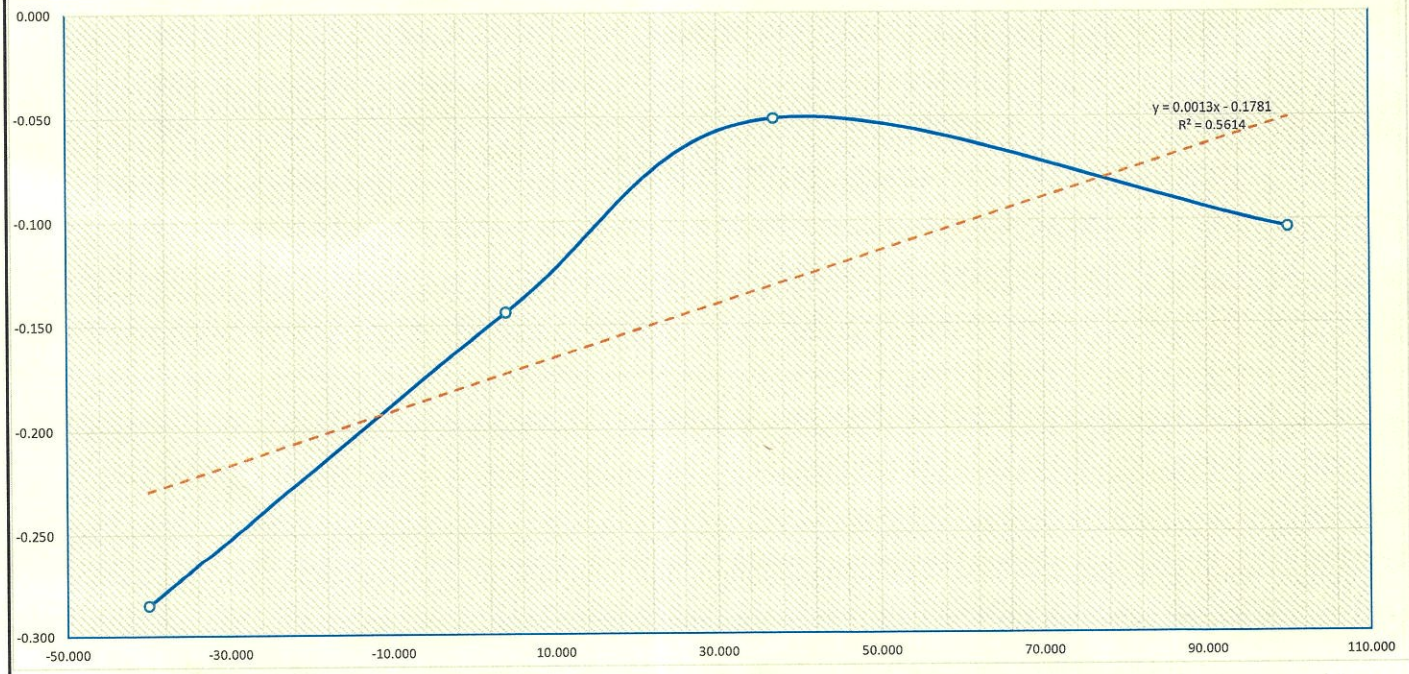
DATE OF ISSUE: 23 February 2024 **CERTIFICATE No:** 005240

The information indicated below is taken from the calibration data annotated overleaf.

Graph 1: Shows the rise and/or fall in temperature in the calibration specification.



Graph 2: Shows the deviation revealed in calibration between the actual temperature (Graph 1) and that indicated by the unit under test.



The blue line above indicates the direction and magnitude of deviation from the true temperature value. The dotted line indicates the trend of deviation from true across the range of the calibration points employed. The formula is that of the trend line. For the purposes of setting offsets; regard should be taken of the parallelity of the trend line to the base line.

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Customer:	DJB Labcare Ltd			**Order Reference:**	89796
Address:	Unit 12, Howard Way, Cromwell Business Centre, Newport pagnell, Buckinghamshire. MK16 9QS				
Device Description:	Welded Tip Thermocouple with Mini Plug				
Device Identity:	014216 32062-50 02/24	**Device Type:**	T Type Thermocouple		
Sensor Length:	N/A	**Sensor Diameter:**	N/A	**Immersion Depth:**	190/155
Procedure Used:	t2bah	**Calibration Points Requested:**	4	**Ambient Temperature:**	20.5°C ± 0.7°C
Equipment Used:	Isotech Venus 4951 Dry Block Calibrator (381785/1) /Ametek ATC-125-A Dry Block Calibrator (582176-00267) Isotech milliK & millisKanner (391730/2 & 20AS76/1)				
Reference(s) Used:	PRT (39876/3) / PRT (401201/2)				

The device was examined and found to be in a satisfactory condition.

Results annotated hereon are applicable only to the device(s) identified above.

Results of Calibration

Actual Temperature °C	UUT Temperature °C	Error °C	Uncertainty (±) °C
-40.015	-40.17	-0.155	0.50
4.024	3.89	-0.134	0.50
37.001	36.95	-0.051	0.50
100.044	99.94	-0.104	0.50

-----END OF RESULTS-----

Multiple Dry Block calibration using IEC 60584-1 (2013) Temperature Conversion and an ITS90 Scale.

Second part of a THREE certificate set indicating FIRST, MIDDLE and LAST of the cable used on a manufactured batch.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. UKAS is one of the signatories to the Multilateral Agreement to the European co-operation Accreditation (EA) for the mutual recognition for calibration certificates issued by accredited laboratories. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units of measurement realised at the National Physical Laboratory or other recognised national metrological institute

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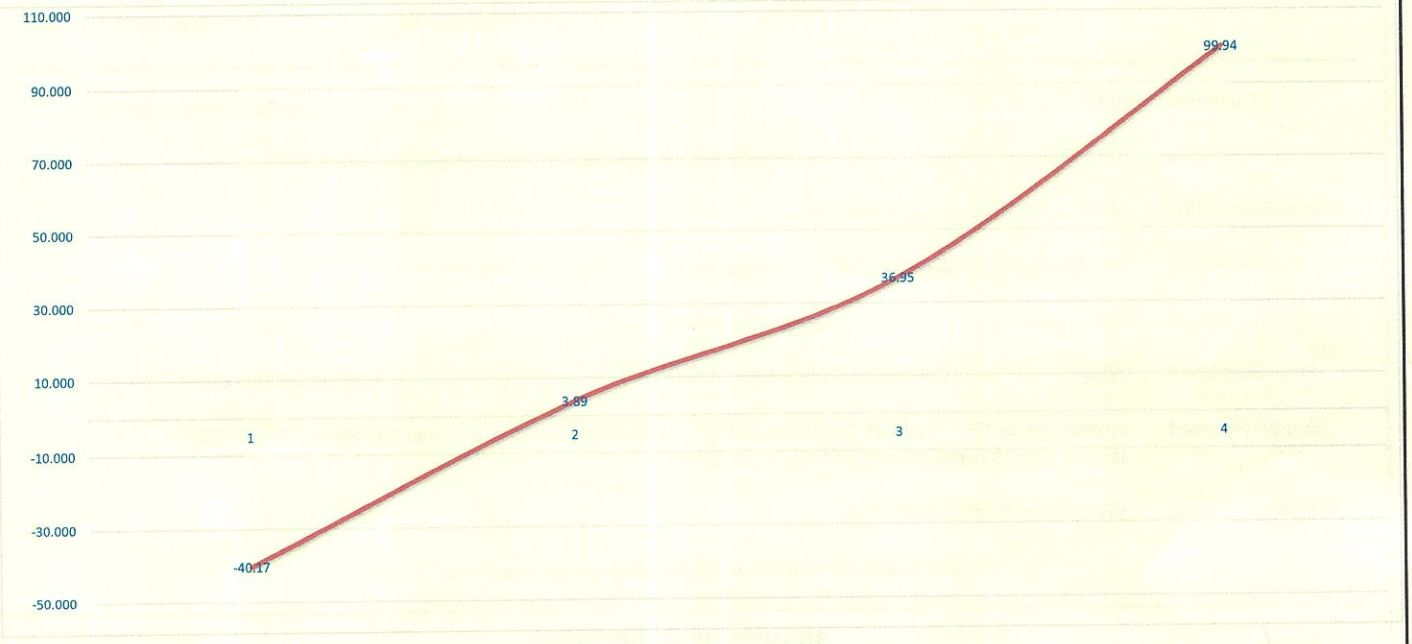
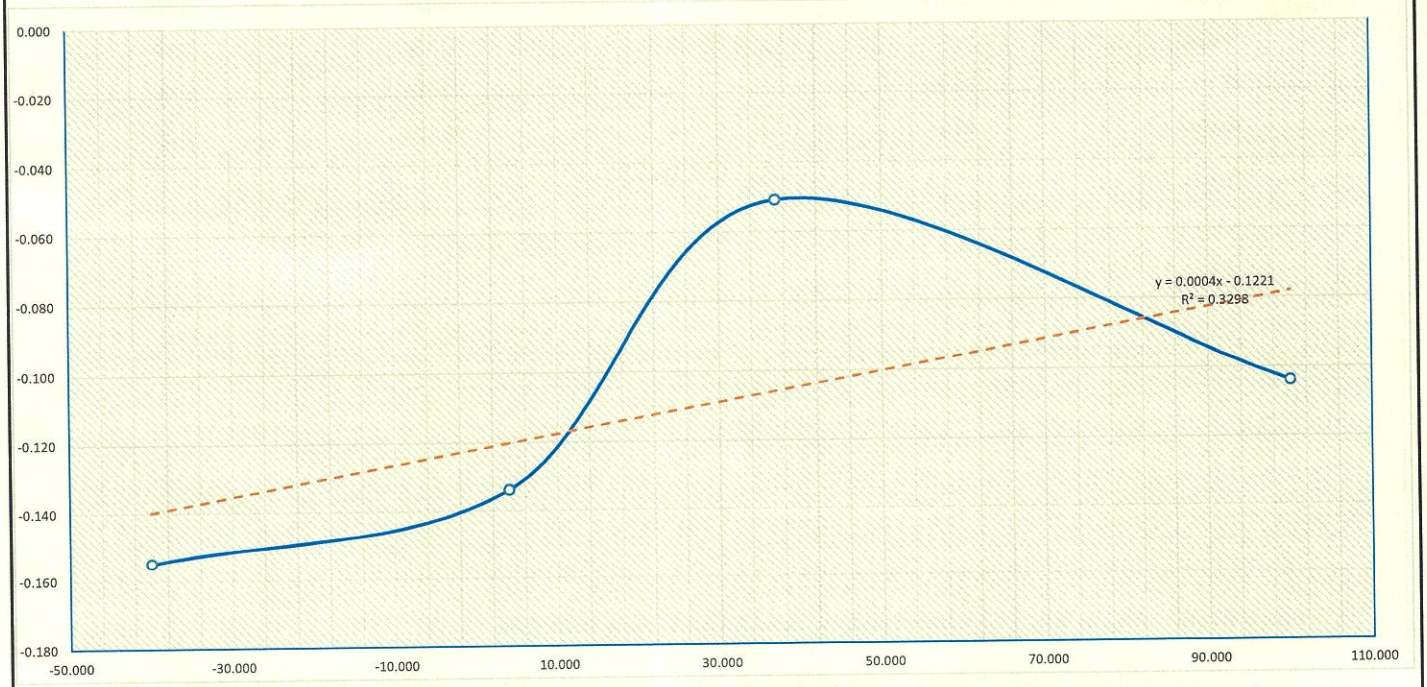
The information indicated below is taken from the calibration data annotated overleaf.

Graph 1: Shows the rise and/or fall in temperature in the calibration specification.



Graph 2: Shows the deviation revealed in calibration between the actual temperature (Graph 1) and that indicated by the unit under test.



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M26 2ZT

Tel: +44 (0)1628 531166

Customer: DJB Labcare Ltd **Order Reference:** 89796

Address: Unit 12, Howard Way, Cromwell Business Centre, Newport pagnell, Buckinghamshire. MK16 9QS

Device Description: Welded Tip Thermocouple with Mini Plug

Device Identity: 014216 32062-100 02/24 **Device Type:** T Type Thermocouple

Sensor Length: N/A **Sensor Diameter:** N/A **Immersion Depth:** 190/155

Procedure Used: t2bah **Calibration Points Requested:** 4 **Ambient Temperature:** 20.5°C ± 0.7°C

Equipment Used: Isotech Venus 4951 Dry Block Calibrator (381785/1) /Ametek ATC-125-A Dry Block Calibrator (582176-00267) Isotech milliK & millisKanner (391730/2 & 20AS76/1)

Reference(s) Used: PRT (39876/3) / PRT (401201/2)

The device was examined and found to be in a satisfactory condition.

Results annotated hereon are applicable only to the device(s) identified above.

Results of Calibration

Actual Temperature °C	UUT Temperature °C	Error °C	Uncertainty (±) °C
-40.015	-40.15	-0.135	0.50
4.024	3.92	-0.104	0.50
37.001	36.95	-0.051	0.50
100.044	99.93	-0.114	0.50

-----END OF RESULTS-----

Multiple Dry Block calibration using IEC 60584-1 (2013) Temperature Conversion and an ITS90 Scale.

Third part of a THREE certificate set indicating FIRST, MIDDLE and LAST of the cable used on a manufactured batch.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. UKAS is one of the signatories to the Multilateral Agreement to the European co-operation Accreditation (EA) for the mutual recognition for calibration certificates issued by accredited laboratories. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units of measurement realised at the National Physical Laboratory or other recognised national metrological institute

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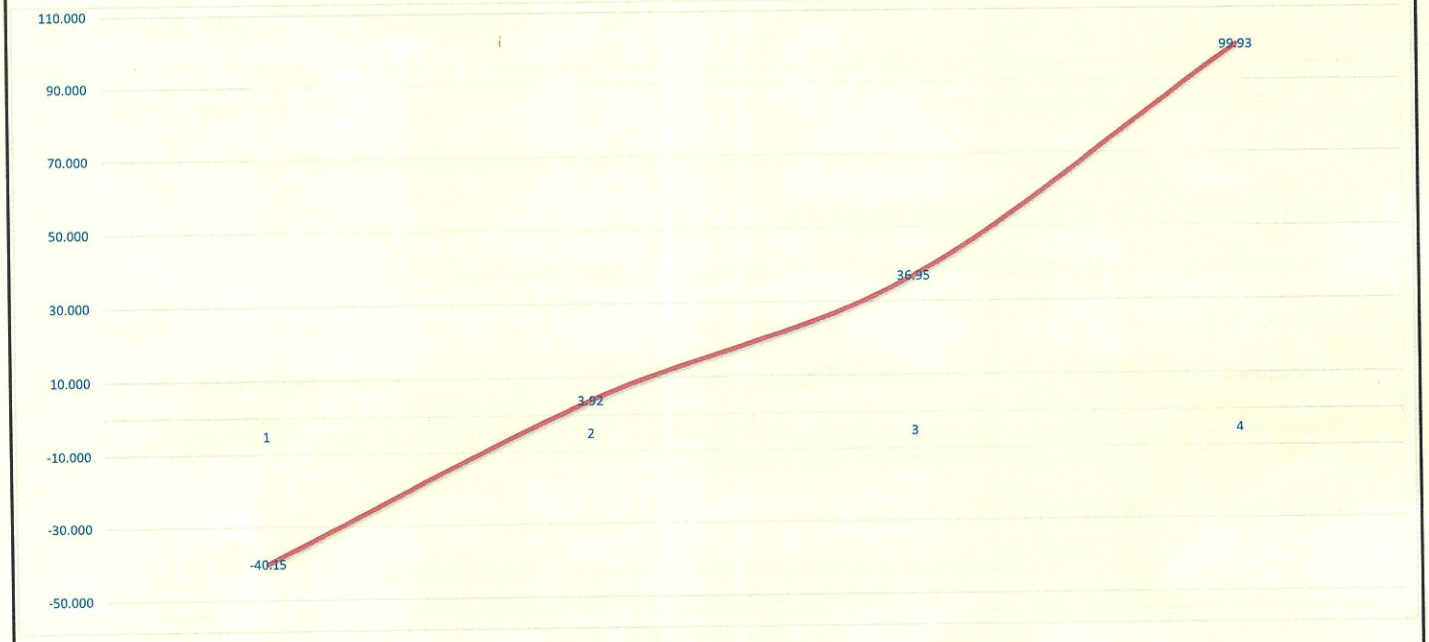
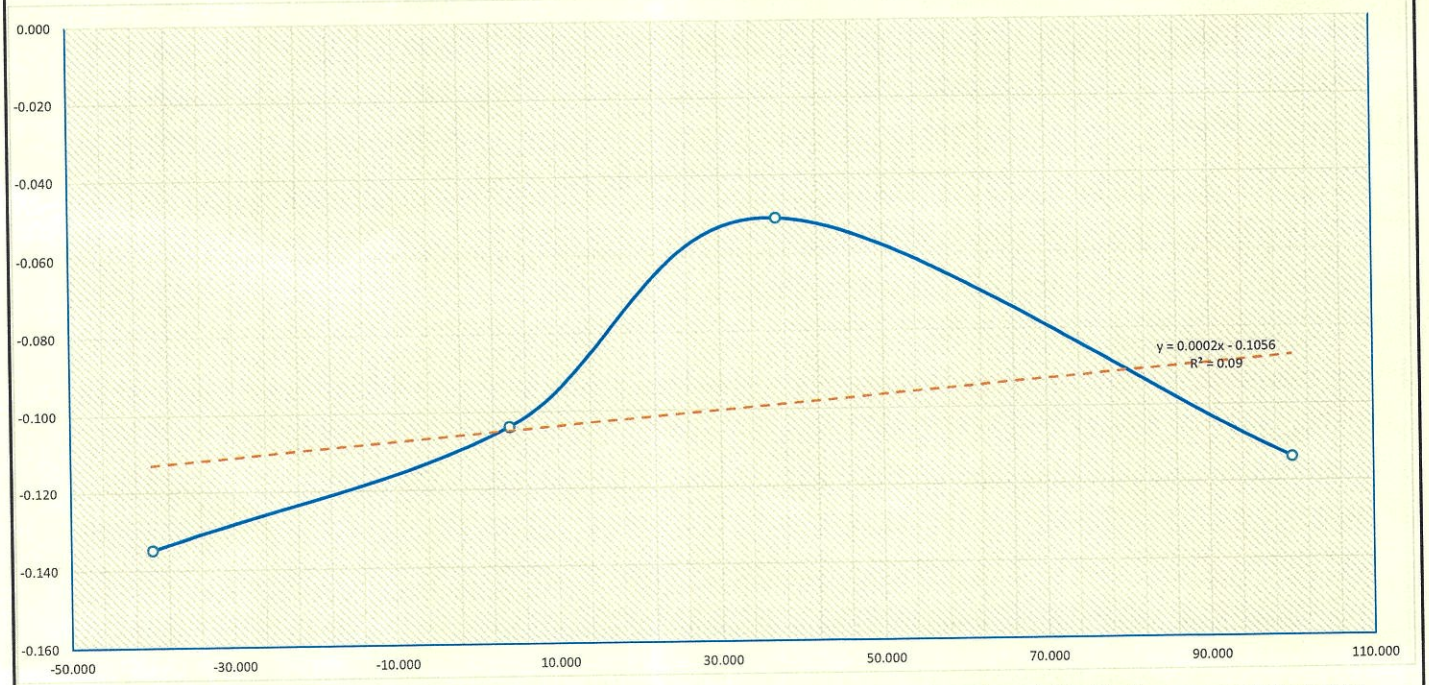
The information indicated below is taken from the calibration data annotated overleaf.

Graph 1: Shows the rise and/or fall in temperature in the calibration specification.



Graph 2: Shows the deviation revealed in calibration between the actual temperature (Graph 1) and that indicated by the unit under test.



The blue line above indicates the direction and magnitude of deviation from the true temperature value. The dotted line indicates the trend of deviation from true across the range of the calibration points employed. The formula is that of the trend line. For the purposes of setting offsets; regard should be taken of the parallelity of the trend line to the base line.