OUED BY THERMO						
SSUED BY: THERMO	SENSE LIMITED		CERTIFICATE N	o: 005240		UKAS CALIBRATION
ALIBRATED. 20.	-ebruary 202-		CERTIFICATE IN		Sector and the	21817
The	rmo	SEI	15E ® .co.uk	All calibrations performed at: Eton House Eton Way North Radcliffe Lancashire M26 2ZT Tel: +44 (0)1628 531166		Page 1 of 2 ROVED SIGNATORY Routes Karunadasa MSc. BSc
Customer:	DJB Labcare Lto	d			Order Referer	nce: 89796
Address:	Unit 12, Howard	Way, Cromwel	I Business Centre, Nev	vport pagnell, Buckinghamsh		
Device Description:	Welded Tip The			por paynen, -	Inc. Where a	
Device Description:	014216 32062-			T T Thermosourle		
		1 02/24	Device Type:	T Type Thermocouple		
Sensor Length:	N/A		Sensor Diameter:	N/A	Immersion Dep	pth: 190/155
Procedure Used: Equipment Used: Reference(s) Used:	Isotech milliK & PRT (39876/3) /	951 Dry Block (millisKanner (39 PRT (401201/2 ne device was o	91730/2 & 20AS76/1) 2) examined and found t	4 vmetek ATC-125-A Dry Block o be in a satisfactory cond	lition.	
Equipment Used:	Isotech Venus 4 Isotech milliK & PRT (39876/3) /	951 Dry Block (millisKanner (39 PRT (401201/2 ne device was o	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t	metek ATC-125-A Dry Block o be in a satisfactory cond ly to the device(s) identified above	k Calibrator (582176-00	
Equipment Used:	Isotech Venus 4 Isotech milliK & I PRT (39876/3) / Th	951 Dry Block (millisKanner (39 PRT (401201/2 ne device was o Results annotat	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t ted hereon are applicable on	metek ATC-125-A Dry Block o be in a satisfactory cond ly to the device(s) identified above libration	k Calibrator (582176-00 lition.	0267) ncertainty (±)
Equipment Used: Reference(s) Used: Actual Temperate	Isotech Venus 4 Isotech milliK & I PRT (39876/3) / Th	951 Dry Block (millisKanner (39 PRT (401201/2 ne device was e Results annotat	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t ted hereon are applicable on	metek ATC-125-A Dry Block o be in a satisfactory cond ly to the device(s) identified above	k Calibrator (582176-00 lition. e.	0267)
Equipment Used: Reference(s) Used: Actual Temperate °C	Isotech Venus 4 Isotech milliK & I PRT (39876/3) / Th	951 Dry Block (millisKanner (39 PRT (401201/2 ne device was of Results annotat	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t ted hereon are applicable on	o be in a satisfactory cond ly to the device(s) identified above libration Erro	k Calibrator (582176-00 lition. a.	D267) ncertainty (±) °C
Equipment Used: Reference(s) Used: Actual Temperatu °C -40.015	Isotech Venus 4 Isotech milliK & I PRT (39876/3) / Th	951 Dry Block (millisKanner (39 PRT (401201/2 he device was of <i>Results annotat</i> Temperature °C -40.30	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t ted hereon are applicable on	o be in a satisfactory cond ly to the device(s) identified above allibration C.28	k Calibrator (582176-00 lition. pr Ur 35	0267) ncertainty (±) °C 0.50
Equipment Used: Reference(s) Used: Actual Temperatu °C -40.015 4.024	Isotech Venus 4 Isotech milliK & I PRT (39876/3) / Th	951 Dry Block (millisKanner (39 PRT (401201/2 ne device was of Results annotation Temperature °C -40.30 3.88	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t ted hereon are applicable on	o be in a satisfactory cond ly to the device(s) identified above Alibration °C -0.28 -0.14	k Calibrator (582176-00 lition. 5 pr Un 35 44	D267) ncertainty (±) °C 0.50 0.50
Equipment Used: Reference(s) Used: Actual Temperatu °C -40.015 4.024 37.001	Isotech Venus 4 Isotech milliK & I PRT (39876/3) / Th	951 Dry Block (millisKanner (35 PRT (401201/2 ne device was a <i>Results annotati</i> Temperature °C -40.30 3.88 36.95	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t ted hereon are applicable on	o be in a satisfactory cond ly to the device(s) identified above Alibration C -0.28 -0.14 -0.05 -0.10	k Calibrator (582176-00 lition. 5 pr Un 35 44	D267) ncertainty (±) °C 0.50 0.50 0.50
Equipment Used: Reference(s) Used: Actual Temperatu °C -40.015 4.024 37.001	Isotech Venus 4 Isotech milliK & I PRT (39876/3) / Th	951 Dry Block (millisKanner (35 PRT (401201/2 ne device was a <i>Results annotati</i> Temperature °C -40.30 3.88 36.95	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t ted hereon are applicable on Results of Ca	o be in a satisfactory cond ly to the device(s) identified above Alibration C -0.28 -0.14 -0.05 -0.10	k Calibrator (582176-00 lition. 5 pr Un 35 44	D267) ncertainty (±) °C 0.50 0.50 0.50 0.50
Equipment Used: Reference(s) Used: Actual Temperatu °C -40.015 4.024 37.001	Isotech Venus 4 Isotech milliK & I PRT (39876/3) / Th	951 Dry Block (millisKanner (35 PRT (401201/2 ne device was a <i>Results annotati</i> Temperature °C -40.30 3.88 36.95	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t ted hereon are applicable on Results of Ca	o be in a satisfactory cond ly to the device(s) identified above Alibration C -0.28 -0.14 -0.05 -0.10	k Calibrator (582176-00 lition. 5 pr Un 35 44	D267) ncertainty (±) °C 0.50 0.50 0.50 0.50
Equipment Used: Reference(s) Used: Actual Temperatu °C -40.015 4.024 37.001	Isotech Venus 4 Isotech milliK & I PRT (39876/3) / Th	951 Dry Block (millisKanner (35 PRT (401201/2 ne device was a <i>Results annotati</i> Temperature °C -40.30 3.88 36.95	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t ted hereon are applicable on Results of Ca	o be in a satisfactory cond ly to the device(s) identified above Alibration C -0.28 -0.14 -0.05 -0.10	k Calibrator (582176-00 lition. 5 pr Un 35 44	D267) ncertainty (±) °C 0.50 0.50 0.50 0.50
Equipment Used: Reference(s) Used: Actual Temperatu °C -40.015 4.024 37.001	Isotech Venus 4 Isotech milliK & I PRT (39876/3) / Th	951 Dry Block (millisKanner (35 PRT (401201/2 ne device was a <i>Results annotati</i> Temperature °C -40.30 3.88 36.95	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t ted hereon are applicable on Results of Ca	o be in a satisfactory cond ly to the device(s) identified above Alibration C -0.28 -0.14 -0.05 -0.10	k Calibrator (582176-00 lition. 5 pr Un 35 44	D267) ncertainty (±) °C 0.50 0.50 0.50 0.50
Equipment Used: Reference(s) Used: Actual Temperatu °C -40.015 4.024 37.001	Isotech Venus 4 Isotech milliK & I PRT (39876/3) / Th	951 Dry Block (millisKanner (35 PRT (401201/2 ne device was a <i>Results annotati</i> Temperature °C -40.30 3.88 36.95	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t ted hereon are applicable on Results of Ca	o be in a satisfactory cond ly to the device(s) identified above Alibration C -0.28 -0.14 -0.05 -0.10	k Calibrator (582176-00 lition. 5 pr Un 35 44	D267) ncertainty (±) °C 0.50 0.50 0.50 0.50
Equipment Used: Reference(s) Used: Actual Temperatu °C -40.015 4.024 37.001	Isotech Venus 4 Isotech milliK & I PRT (39876/3) / Th	951 Dry Block (millisKanner (35 PRT (401201/2 ne device was a <i>Results annotati</i> Temperature °C -40.30 3.88 36.95	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t ted hereon are applicable on Results of Ca	o be in a satisfactory cond ly to the device(s) identified above Alibration C -0.28 -0.14 -0.05 -0.10	k Calibrator (582176-00 lition. 5 pr Un 35 44	D267) ncertainty (±) °C 0.50 0.50 0.50 0.50
Equipment Used: Reference(s) Used: Actual Temperatu °C -40.015 4.024 37.001	Isotech Venus 4 Isotech milliK & I PRT (39876/3) / Th	951 Dry Block (millisKanner (35 PRT (401201/2 ne device was a <i>Results annotati</i> Temperature °C -40.30 3.88 36.95	Calibrator (381785/1) /A 91730/2 & 20AS76/1) 2) examined and found t ted hereon are applicable on Results of Ca	o be in a satisfactory cond ly to the device(s) identified above Alibration C -0.28 -0.14 -0.05 -0.10	k Calibrator (582176-00 lition. 5 pr Un 35 44	D267) ncertainty (±) °C 0.50 0.50 0.50 0.50

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 QF839 Issue 1



CALIBRATED: 23 F			o: 005241	UKAS CALIBRATION
CALIBRATED: 23 F	ebruary 2024	CERTIFICATE No	5: 005241	21817
The	rmosen	SE® .co.uk	All calibrations performed at: Eton House Eton Way North Radcliffe Lancashire M26 2ZT Tel: +44 (0)1628 531166	Page 1 of 2 APPROVED SIGNATOR Reutise Nelka Karunadasa MSc. BSc
Customer:	DJB Labcare Ltd	*****		Order Reference: 89796
Address:	Unit 12, Howard Way, Cromwell I	Business Centre, New	port pagnell, Buckinghamshin	e. MK16 9QS
Device Description:	Welded Tip Thermocouple with M		· · · · · · · · · · · · · · · · · · ·	
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 F	oints Requested:	4	Ambient Temperature: 20.5°C ± 0.7°
Equipment Used:	Isotech Venus 4951 Dry Block Ca Isotech milliK & millisKanner (391	librator (381785/1) /A 730/2 & 20AS76/1)	metek ATC-125-A Dry Block (Calibrator (582176-00267)
Reference(s) Used:	PRT (39876/3) / PRT (401201/2)			
	The device was ex	amined and found to	be in a satisfactory conditi	on.
	Results annotated	hereon are applicable onl	y to the device(s) identified above.	
Actual Temperatu		Results of Ca	10	
°C	°C		Error °C	Uncertainty (±) °C
0			0.455	
-40.015	-40.17		-0.155	0.50
-40.015 4.024	3.89		-0.135	0.50 0.50
-40.015 4.024 37.001	3.89 36.95		-0.134 -0.051	0.50 0.50
-40.015 4.024	3.89		-0.134 -0.051 -0.104	0.50
-40.015 4.024 37.001	3.89 36.95	END OF RESI	-0.134 -0.051 -0.104	0.50 0.50
-40.015 4.024 37.001	3.89 36.95	END OF RESI	-0.134 -0.051 -0.104	0.50 0.50
-40.015 4.024 37.001	3.89 36.95	END OF RESI	-0.134 -0.051 -0.104	0.50 0.50
-40.015 4.024 37.001	3.89 36.95	END OF RESI	-0.134 -0.051 -0.104	0.50 0.50
-40.015 4.024 37.001	3.89 36.95	END OF RESI	-0.134 -0.051 -0.104	0.50 0.50
-40.015 4.024 37.001	3.89 36.95	END OF RESI	-0.134 -0.051 -0.104	0.50 0.50
-40.015 4.024 37.001	3.89 36.95	END OF RESI	-0.134 -0.051 -0.104	0.50 0.50
-40.015 4.024 37.001	3.89 36.95	END OF RESI	-0.134 -0.051 -0.104	0.50 0.50
-40.015 4.024 37.001 100.044	3.89 36.95 99.94		-0.134 -0.051 -0.104 JLTS	0.50 0.50
-40.015 4.024 37.001 100.044	3.89 36.95		-0.134 -0.051 -0.104 JLTS	0.50 0.50



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SSUED BY: THERMC	DSENSE LIM	ITED				UKAS
CALIBRATED: 23 I	February 20	024	CERTIFICATE N	lo: 005242		CALIBRATION 21817
The	rm	OSEI	15C ® .co.uk		House Way North liffe ashire 2ZT	Page 1 of 2 APPROVED SIGNATOR Routing Nelka Karunadasa MSc. BS
Customer:	DJB Labca	are Ltd				Order Reference: 89796
Address:	Unit 12 Ho	ward Way, Cromwe	Il Business Centre, Ne	what he shall Due	aliantan da ante	
Device Description:				wport pagnell, Bud	ckingnamsnire. M	K16 9QS
••••••		o Thermocouple with	Mini Plug			
Device Identity:	014216 320	062-100 02/24	Device Type:	T Type Thermo	ocouple	
Sensor Length:	N/A		Sensor Diameter:	N/A		Immersion Depth: 190/155
Procedure Used:	t2bah	Calibration	Points Requested:	4	Aml	bient Temperature: 20.5°C ± 0.7
Equipment Used:	Isotech Ver	nus 4951 Dry Block (Calibrator (381785/1) //	Ametek ATC-125-/	A Dry Block Calib	rator (582176-00267)
	Isotech mill	iK & millisKanner (39	91730/2 & 20AS76/1)			
Reference(s) Used:		iiK & millisKanner (39 6/3) / PRT (401201/2				
Reference(s) Used:		iK & millisKanner (39 6/3) / PRT (401201/2 The device was (examined and found f	to be in a satisfac	ctory condition.	
Reference(s) Used:		iK & millisKanner (39 6/3) / PRT (401201/2 The device was (2) examined and found f ed hereon are applicable or	nly to the device(s) ide	ctory condition.	
Reference(s) Used:	PRT (39876	iK & millisKanner (3 6/3) / PRT (401201/2 The device was a Results annotat	examined and found f	nly to the device(s) ide	entified above.	lincortainty (#)
Actual Temperatu °C	PRT (39876	iK & millisKanner (3 5/3) / PRT (401201/2 The device was on Results annotat UUT Temperature °C	2) examined and found f ed hereon are applicable or	nly to the device(s) ide	ctory condition. Intified above. Error °C	Uncertainty (±) °C
Actual Temperatu °C -40.015	PRT (39876	iK & millisKanner (3 6/3) / PRT (401201/2 The device was <i>Results annotat</i> UUT Temperature °C -40.15	2) examined and found f ed hereon are applicable or	nly to the device(s) ide	Error °C -0.135	
Actual Temperatu °C -40.015 4.024	PRT (39876	iK & millisKanner (39 6/3) / PRT (401201/2 The device was on <i>Results annotat</i> UUT Temperature °C -40.15 3.92	2) examined and found f ed hereon are applicable or	nly to the device(s) ide	Error °C -0.135 -0.104	° C 0.50 0.50
Actual Temperatu °C -40.015	PRT (39876	iK & millisKanner (3 6/3) / PRT (401201/2 The device was <i>Results annotat</i> UUT Temperature °C -40.15	2) examined and found f ed hereon are applicable or	nly to the device(s) ide	Error °C -0.135 -0.104 -0.051	°C 0.50 0.50 0.50
Actual Temperatu °C -40.015 4.024 37.001	PRT (39876	iK & millisKanner (39 5/3) / PRT (401201/2 The device was a Results annotat UUT Temperature °C -40.15 3.92 36.95	2) examined and found f ed hereon are applicable or	nly to the device(s) ide	Error °C -0.135 -0.104	° C 0.50 0.50
Actual Temperatu °C -40.015 4.024 37.001	PRT (39876	iK & millisKanner (39 5/3) / PRT (401201/2 The device was a Results annotat UUT Temperature °C -40.15 3.92 36.95	examined and found t ed hereon are applicable or Results of Ca	nly to the device(s) ide	Error °C -0.135 -0.104 -0.051	°C 0.50 0.50 0.50
Actual Temperatu °C -40.015 4.024 37.001	PRT (39876	iK & millisKanner (39 5/3) / PRT (401201/2 The device was a Results annotat UUT Temperature °C -40.15 3.92 36.95	examined and found t ed hereon are applicable or Results of Ca	nly to the device(s) ide	Error °C -0.135 -0.104 -0.051	°C 0.50 0.50 0.50
Actual Temperatu °C -40.015 4.024 37.001	PRT (39876	iK & millisKanner (3 5/3) / PRT (401201/2 The device was a Results annotat UUT Temperature °C -40.15 3.92 36.95	examined and found t ed hereon are applicable or Results of Ca	nly to the device(s) ide	Error °C -0.135 -0.104 -0.051	°C 0.50 0.50 0.50
Actual Temperatu °C -40.015 4.024 37.001	PRT (39876	iK & millisKanner (3 5/3) / PRT (401201/2 The device was a Results annotat UUT Temperature °C -40.15 3.92 36.95	examined and found t ed hereon are applicable or Results of Ca	nly to the device(s) ide	Error °C -0.135 -0.104 -0.051	°C 0.50 0.50 0.50
Actual Temperatu °C -40.015 4.024 37.001	PRT (39876	iK & millisKanner (3 5/3) / PRT (401201/2 The device was a Results annotat UUT Temperature °C -40.15 3.92 36.95	examined and found t ed hereon are applicable or Results of Ca	nly to the device(s) ide	Error °C -0.135 -0.104 -0.051	°C 0.50 0.50 0.50
Actual Temperatu °C -40.015 4.024 37.001	PRT (39876	iK & millisKanner (3 5/3) / PRT (401201/2 The device was a Results annotat UUT Temperature °C -40.15 3.92 36.95	examined and found t ed hereon are applicable or Results of Ca	nly to the device(s) ide	Error °C -0.135 -0.104 -0.051	°C 0.50 0.50 0.50
Actual Temperatu °C -40.015 4.024 37.001	PRT (39876	iK & millisKanner (3 5/3) / PRT (401201/2 The device was a Results annotat UUT Temperature °C -40.15 3.92 36.95	examined and found t ed hereon are applicable or Results of Ca	nly to the device(s) ide	Error °C -0.135 -0.104 -0.051	°C 0.50 0.50 0.50
Actual Temperatu °C -40.015 4.024 37.001	PRT (39876	iK & millisKanner (3 5/3) / PRT (401201/2 The device was a Results annotat UUT Temperature °C -40.15 3.92 36.95	examined and found t ed hereon are applicable or Results of Ca	nly to the device(s) ide	Error °C -0.135 -0.104 -0.051	°C 0.50 0.50 0.50
Actual Temperatu °C -40.015 4.024 37.001 100.044	PRT (39876	iK & millisKanner (39 5/3) / PRT (401201/2 The device was a Results annotat UUT Temperature °C -40.15 3.92 36.95 99.93	examined and found t ed hereon are applicable or Results of Ca	alibration	Error °C -0.135 -0.104 -0.051 -0.114	°C 0.50 0.50 0.50

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 **QF839 Issue 1**



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