

Dytran Instruments, Inc.

21592 Marilla St. Chatsworth, CA 91311 Ph: 818-700-7818 Fax 818-698-0362, www.dytran.com email: info@dytran.com





CALIBRATION CERTIFICATE

CUSTOMER: ALLIANTECH SAS				STATI		ATION: 6		REPORT #: 7439		7439		
PO #: FBC200585		SO#:	SO# : 208957		TEMP (°C):		24	PROCE	EDURE:	TP-3002		
MODEL: 3145A1		3145A1	S/N:	7439		TYPE[1]: 1		AS RE	CEIVED: AS RETURNED:		ETURNED:	
Input	Frequency	Sens							CALIBRAT	TION EQUIF	MENT	
g's	Hz	mV/g						DII#	DESCR	RIPTION	CAL. DUE DAT	
1.00	20	10.24						2154	D/	AQ	5/24/2021	
1.00	30	10.42						1868	ACCELER	ROMETER	4/23/2021	
1.00	50	10.37										
1.00	100	10.34										
1.00	300	10.15										
1.00	500	10.19							CALIBR	ATION NOT	ES:	
1.00	1000	10.12						1				
1.00	2000	10.06										
1.00	3000	10.01						* [1] CALIE	RATION TYPE CODE			
1.00	4000	9.96						* [2] IF APE	1-NEW UNIT 2-RE-CALIBRATION * [2] IF APPLICABLE * [3] UNCERTAINTY STATEMENT APPLIES TO CALIBRATED PARAMETERS ON			
1.00	5000	10.00						 [4] THIS CALIBRATION WAS PERFORMED IN ACCORDANCE WITH ANSI/NCSI Z540-1-1994, ISO 10012-1, ISO/IEC17025, AND TRACEABLE TO NIST 				
1.00	6000	9.93						COMPLIANCE	VOLTAGE LIMITED	TO 5 mA OF CURRE	IS PERFORMED USING 24 VE INT INGS. UNCERTAINTY OF	
1.00	7000	10.03						CALIBRATIO	N IS NOT TAKEN INTO	ACCOUNT.	INGS. UNCERTAINT FOR	
1.00	8000	10.05						- AS RECENEDIAS RETURN CODES: 1 = IN TOLERANCE, NO ADJUSTMENTS 3 = OUT OF TOLERANCE - 5% 5 = REPAR REQUIRED 6 = REPARRED AND CALIBRATED				
1.00	9000	9.97										
1.00	10000	9.98							REPAIRABLE, RECOMM CEABLE WITH CURRE			
								SENSITIVITY O	UNCERTAINTY OF CAL	IBRATION [3] 0HZ-2.1%,20-100HZ-1.	9%, 100-2,500HZ-1.5%,2,500-	
								TRANSVERSE	T TEMPERATURE: 4.3% SENSITIVITY: 3.6%.			
								ACOUSTIC PR STATIC FORC 100,000LBF-1.	ESSURE: 130dB 7.6%, 1 E:10-500LBF-1.0%,500-1 2%,	40dB 2.7%, 150dB 1.5 1,000LBF-1.3%,1,000-1	%, 160dB 1.3%, 0,000LBF-1.1%,10,000-	
								DEAD WEIGHT DROP -SHOCK	: 0.7%.	00 10 0000011 0%		
					Λ	n	`	MPULSE FORCE: 1000.EF-3.8%, 1000.5000.EF-1.0%, LENEARTY: 100Ft2-19%, 500Hz-1.8%, 1,000Hz-2.9%, DC-VOLTAGE: 0.1%, COVERAGE FACTOR K-2. SNOLE ENDED MEMS UNIT: 04-26.38%, 20-10012-6.89%, 100-500Hz-6.59%, "ACCREDITATION CALIBRATION IS ONLY FOR PARAMETERS WHICH ARE STATED FOR				
BIAS	VDC	12.23		Cal. Tech.:	CAP	EREK MON	TES					
TRANSVERSE SENS. (%):		2.90		ISSUE DATE:		12/8/2020		* THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOU THE WRITTEN PERMISSION FROM DYTRAN INSTRUMENTS, INC. "DATA RESUL"				
DISCHARGE T.C. (SEC.):		0.80	-	TEST DATE	12/8/2	2020	RELATE ONLY TO THE MODEL AND SERIAL PRESENTED ON THE CERTIFICATE *LIMITATION OF USE: IN ACCORDANCE WITH PERFORMANCE SPECIFICATION O CALIBRATED MODEL.					
							FREQUE	NCY RESPON	SE (IF APPLIC	ABLE)		
					45		х	y	z	· · · Upper Limit	Lower Limit	
					35 25							
					15							
				Davisticn (%)	5							
				- ind	-15						:	
					-25							
					-35 -45							
					1		10	20 Frequ	100	1000	5000 10000	

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CALIBRATION CERTIFICATE

CUSTOMER:		ALLIANT		STATION:	6	REPORT #:	7441		
PO#:		FBC200585 SO# :		208957	TEMP (°C):	24	PROCEDURE:	TP-3002	
		3145A1	S/N:	7441	TYPE[1]: 1	AS RE	CEIVED: AS RI	AS RETURNED:	
Input	Frequency	Sens					CALIBRATION EQUIP	MENT	
g's	Hz	mV/g				DII#	DESCRIPTION	CAL. DUE DAT	
1.00	20	9.92				2154	DAQ	5/24/2021	
1.00	30	9.79				1868	ACCELEROMETER	4/23/2021	
1.00	50	9.73							
1.00	100	9.77							
1.00	300	9.74							
1.00	500	9.67					CALIBRATION NO	TES:	
1.00	1000	9.63				1			
1.00	2000	9.57							
1.00	3000	9.56					RATION TYPE CODE:		
1.00	4000	9.51				* [2] IF APF	RTAINTY STATEMENT APPLIES TO CALI	BRATED PARAMETERS ONL'	
1.00	5000	9.58				* [4] THIS 0 Z540-1-1994,	CALIBRATION WAS PERFORMED IN ACCUSO 10012-1, ISO/IEC17025, AND TRACE	ORDANCE WITH ANSI/NCSL ABLE TO NIST	
1.00	6000	9.53				COMPLIANCE	SE OF IEPE SENSOR THE CALIBRATION E VOLTAGE LIMITED TO 5 MA OF CURRE LIANCE JUDGEMENT IS MADE ON READ	ENT	
1.00	7000	9.56				CALIBRATIO	N IS NOT TAKEN INTO ACCOUNT.		
1.00	8000	9.58				* AS RECEN	/ED/AS RETURN CODES: NCE, NO ADJUSTMENTS 2 = IN TOLE	RANCE, BUT ADJUSTED	
1.00	9000	9.54				3 = OUT OF TO 5 = REPAIR RE	DLERANCE < 5% 4 = OUT OF QUIRED 6 = REPAIR	TOLERANCE > 5% ED AND CALIBRATED	
1.00	10000	9.55				8 = UNIT SERV	REPAIRABLE, RECOMMEND REPLACEMENT (ICEABLE WITH CURRENT CALIBRATION DA		
						SENSITIVITY (10,000HZ-2.89	UNCERTAINTY OF CALIBRATION [3] OVER FREQUENCY: 1-20HZ-2.1%,20-100HZ-1	.9%, 100-2,500HZ-1.5%,2,500-	
						TRANSVERSE	T TEMPERATURE: 4.3%. SENSITIVITY: 3.6%. ESSURE: 130dB 7.6%, 140dB 2.7%, 150dB 1.3	5% 160dR 1.3%	
						STATIC FORC 100,000LBF-1.	E:10-500LBF-1.0%,500-1,000LBF-1.3%,1,000- 2%,	10,000LBF-1.1%,10,000-	
							K:3.0%. SURE: 5-100PSI-2.4%, 100-10,000PSI-1.0%.		
				/24	A	IMPULSE FORGE: 1000LBF-3.8%,1000-5000LBF-1.0% LINEARITY: 100HZ-1.9%,500HZ-1.8%,1,000HZ-2.9% DC -VOLTAGE: 0.1%			
BIAS	VDC	12.18		Cal. Tech.	DEREK MONTES	COVERAGE F. SINGLE ENDE	ACTOR K=2, CONFIDEN D MEMS UNIT: 0HZ-6.36%,20-100HZ-6.80%, 1 ION CALIBRATION IS ONLY FOR PARAMETE!		
TRANSVERSE SENS. (%):		2.40		ISSUE DATE:	12/8/2020	THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUTHE WRITTEN PERMISSION FROM DYTRAN INSTRUMENTS, INC. 'DATA RESUL'			
DISCHARGE T.C. (SEC.):		0.80		TEST DATE:	12/8/2020		Y TO THE MODEL AND SERIAL PRESEN OF USE: IN ACCORDANCE WITH PERFO MODEL.		
					FREQUI	ENCY RESPO	NSE (IF APPLICABLE)		
				45	x		Z Upper Limit	Lower Limit	
				35 25					
				€ 15					
				Deviation(%)					
				-15					
				-25					
				-35 -45		20		E000	
					1 10	20 Frequ	100 1000 sency(Hz)	5000 10000	