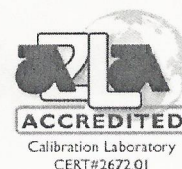




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CALIBRATION CERTIFICATE TRIAXIAL LIVM ACCELEROMETER

CUSTOMER: ESTEQ TEST & MEAS. (PTY) LTD.				TEST REPORT #: 6373			
PURCHASE ORDER #: TMO0870			SALES ORDER #: 162546		PROCEDURE: TP3002		
MODEL: 3263A1		SERIAL #: 6373		RANGE, F.S. (g's): +/- 500			
NEW UNIT	X	RE-CALIBRATION [1]		AS RECEIVED CODE		AS RETURNED CODE	
TEMPERATURE (°C): 22				HUMIDITY (%): 42			
FREQUENCY RESPONSE [2]							
FREQUENCY (Hz)		AXIS 1 (mV/g)		AXIS 2 (mV/g)		AXIS 3 (mV/g)	
20		10.43		10.48		10.27	
30		10.49		10.53		10.26	
50		10.46		10.50		10.18	
100		10.47		10.49		10.35	
300		10.38		10.41		10.17	
500		10.34		10.39		10.17	
1000		10.27		10.29		10.09	
3000		10.04		10.09		9.63	
5000		10.38		10.66		10.19	
8000		10.79		10.21		9.95	
10000		10.57		10.98		9.62	
BIAS VOLTAGE (VDC)		12.3		12.0		12.3	
DISCHARGE T.C. (sec)		1.40		1.60		1.30	
TRANS. SENS. (%)		2.90		3.60		4.70	
REMARKS:							
TEST EQUIPMENT LIST - CALIBRATION STATION # 4							
DII #	MANUFACTURER	MODEL	SERIAL #	DESCRIPTION	CAL DATE	DUE DATE	
686	DYTRAN INST.	3010M14	1684	ACCELEROMETER	03/13/13	03/13/14	
1684	NATIONAL INST.	PCI-4461	1814F5B	DATA ACQUISITION CARD	02/21/13	02/21/14	
<p>[1] AS RECEIVED / AS RETURNED CODES: 1 = IN TOLERANCE, NO ADJUSTMENTS 4 = OUT OF TOLERANCE > 5% 7 = UNIT NON-REPAIRABLE, RECOMMEND REPLACEMENT 2 = IN TOLERANCE, BUT ADJUSTED 5 = REPAIR REQUIRED 8 = UNIT SERVICEABLE WITH CURRENT CALIBRATION DATA 3 = OUT OF TOLERANCE < 5% 6 = REPAIRED AND CALIBRATED</p> <p>[2] THE REFERENCE SENSITIVITY IS MEASURED AT 100 Hz, 1G RMS.</p> <p>[3] THIS CALIBRATION WAS PERFORMED IN ACCORDANCE WITH ANSI/NCSL Z540-1-1994, ISO 10012-1, ISO/IEC17025 USING THE BACK-TO-BACK COMPARISON METHOD PER ISA RP37.2 AND IS TRACEABLE TO THE NIST THROUGH TEST REPORT # 0444 DUE 03-13-2014. ESTIMATED UNCERTAINTY OF CALIBRATION: 2% FROM 20-100 Hz, 1.5% FROM 100-2500 Hz, 2.8% FROM 2.5KHZ-10 kHz. APPLIES TO FREQUENCY RESPONSE ONLY. THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN PERMISSION FROM DYTRAN INSTRUMENTS, INC.</p>							
CALIBRATION TECHNICIAN: HUNG LE				TEST DATE: 11/20/13			
				RECOMMENDED RECALL DATE: 11/20/14			