



Dytran Instruments, Inc.

21592 Marilla St. Chatsworth, CA 91311 Ph: 818-700-7818 Fax 818-700-7880
www.dytran.com email: info@dytran.com



**CALIBRATION CERTIFICATE
TRIAxIAL LIVM ACCELEROMETER**

CUSTOMER: ESTEQ TEST & MEAS. (PTY) LTD.		TEST REPORT #: 6380	
PURCHASE ORDER #: TMO0870		SALES ORDER #: 162546	
MODEL: 3263A1		SERIAL #: 6380	
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	10.38	10.72	10.15
30	10.40	10.73	10.18
50	10.36	10.71	10.17
100	10.37	10.68	10.12
300	10.30	10.60	10.05
500	10.23	10.57	10.01
1000	10.20	10.48	9.94
3000	10.37	10.47	9.57
5000	10.15	10.66	9.89
8000	10.53	11.59	9.73
10000	11.18	11.82	9.47
BIAS VOLTAGE (VDC)	12.1	12.0	12.0
DISCHARGE T.C. (sec)	1.30	1.20	1.30
TRANS. SENS. (%)	2.80	3.20	4.80

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

[1] AS RECEIVED / AS RETURNED CODES:

- 1 = IN TOLERANCE, NO ADJUSTMENTS
- 2 = IN TOLERANCE, BUT ADJUSTED
- 3 = OUT OF TOLERANCE < 5%
- 4 = OUT OF TOLERANCE > 5%
- 5 = REPAIR REQUIRED
- 6 = REPAIRED AND CALIBRATED
- 7 = UNIT NON-REPAIRABLE, RECOMMEND REPLACEMENT
- 8 = UNIT SERVICEABLE WITH CURRENT CALIBRATION DATA

[2] THE REFERENCE SENSITIVITY IS MEASURED AT 100 Hz, 1G RMS.

[3] THIS CALIBRATION WAS PERFORMED IN ACCORDANCE WITH ANSI/INCSL 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.

CALIBRATION TECHNICIAN:

HUNG LE

TEST DATE: 11/20/13

RECOMMENDED RECALL DATE: 11/20/14