



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

<b>CUSTOMER:</b> SVANTEK SP Z.O.O./PROD. DEPT.		<b>TEST REPORT #:</b> 6278		11/13/2008	
<b>PURCHASE ORDER #:</b> 581051		<b>SALES ORDER #:</b> 134083		<b>PROCEDURE:</b> TP3002	
<b>MODEL:</b> 3023M2		<b>SERIAL #:</b> 6278		<b>RANGE, F.S. (g's):</b> +/- 500	
<b>NEW UNIT</b>	X	<b>RE-CALIBRATION [1]</b>		<b>AS RECEIVED CODE</b>	<b>AS RETURNED CODE</b>
<b>TEMPERATURE (°C):</b> 24			<b>HUMIDITY (%):</b> 31		

### FREQUENCY RESPONSE [2]

FREQUENCY (Hz)	AXIS X (mV/g)	AXIS Y (mV/g)	AXIS Z (mV/g)
20	10.90	10.80	11.00
30	10.90	10.80	11.00
50	11.00	10.90	11.10
100	11.00	10.90	11.10
300	11.10	11.00	11.20
500	11.10	11.00	11.20
1000	11.20	11.10	11.20
3000	11.30	11.20	11.20
5000	11.50	11.50	11.20
8000	12.10	12.00	11.80
10000	12.50	12.40	11.40
<b>BIAS VOLTAGE (VDC)</b>	8.6	8.5	8.7
<b>DISCHARGE T.C. (sec)</b>	0.30	0.30	0.30

**REMARKS:**

### TEST EQUIPMENT LIST - CALIBRATION STATION # 9

DII #	MANUFACTURER	MODEL	SERIAL #	DESCRIPTION	CAL DATE	DUE DATE
540	BERAN INSTRUMENTS	475	182448	VIBRATION CALIBRATOR	06/25/08	06/25/09
541	BERAN INSTRUMENTS	801A	A004	DUAL AMPLIFIER UNIT	06/25/08	06/25/09
319	FLUKE	45	7276081	MULTIMETER	05/09/08	05/09/09
014	NICOLET	3091	84D00744	DIGITAL OSCILLOSCOPE	04/22/08	04/22/09
686	DYTRAN INST.	3010M14	1684	ACCELEROMETER	08/26/08	08/26/09

[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

[2] THE REFERENCE SENSITIVITY IS MEASURED AT 100 Hz, 1G RMS.  
 [3] THIS CALIBRATION WAS PERFORMED IN ACCORDANCE WITH ANSI/NCCL 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 # 11632-120H DUE 08-26-09

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:**

*Phuoc Tran*  
 PHUOC TRAN CAL

**TEST DATE:** 11/13/08

**RECOMMENDED RECALL DATE:** 11/13/10