# Calibration Certificate

Per ISA-RP37.2

Model No	353M198		
Serial No	P57754		
PO No.	C	ustomer	_
Calibration 1	traceable to NIST thru Project No	. 822/259355-98	

ICP®ACCELEROMETER

with built-in electronics

Calibration procedure is in compliance with ISO 10012-1, and former MIL-STD-45662A and traceable to NIST.

## CALIBRATION DATA

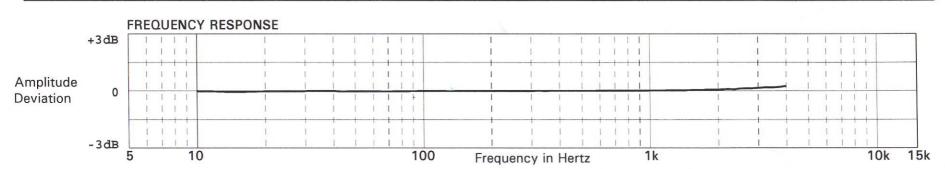
### **KEY SPECIFICATIONS**

Voltage Sensitivity	102.0	mV/g	Range	50	$\pm g$	METRIC CONVERSIONS:
Transverse Sensitivity	0.3	%	Resolution	0.0005	g	$ms^{-2} = 0.102 g$
Resonant Frequency	26.0	kHz	Temp. Range	-65/+250	°F	$^{\circ}C = 5/9 \times (^{\circ}F - 32)$
Output Bias Level	9.2	V				
Time Constant	0.6	S				

ime Constant 0.6 s

Frequency Hz	10	15	30	50	100	300	500	1000	3000	4000			
Amplitude Deviation %	-0.2	-0.6	-0.1	-0.2	0.0	0.0	0.1	0.2	1.8	3.0		10	

Reference Freq.



PFR®

Piezotronics, Inc. 3425 Walden Avenue Depew, NY 14043-2495 USA 716-684-0001

Calibrated by

Mary Warren

Date **05-21-1999** 

# Certificate of Calibration and Conformance

Certificate Number 1998-12247

Instrument Model 2900, Serial Number 0577, was calibrated on 01-06-1998. The instrument meets factory specifications according to Larson • Davis Test Procedure TP-1016, ISO 10012. ANSI S1.11 1986. ANSI S1.4 1983. IEC 651-Type 1 1979, and IEC 804-Type 1 1985.

#### Test Instruments

MANUFACTURER	MODEL	SERIAL NUMBER	INTERVAL (	CAL. DUE	TRACEABILITY NO.
Hewlett Packard	8904A	2948A03847	12 Months 0	9/22/1998	092297-01

Certified Reference Standards are traceable to the National Institute of Standards and Technology (NIST)

Instrument found to be in calibration as received: YES

Date Calibrated: 01-06-1998 Calibration due: 01-06-1999

Calibration Environmental Conditions

Temperature: 21 ° Centigrade

Relative Humidity: 21 %

#### MIL-STD Affirmations

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at Larson • Davis Corporate Headquarters. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

This calibration complies with ISO 10012. The collective uncertainty of the Measurement Standard used does not exceed 25% of the applicable tolerance for each characteristic calibrated unless otherwise noted.

Due to state-of-the-art limitations, 4:1 calibration ratios are not possible on pressure measurement standards, microphones and acoustic calibrators. Calibration ratios for these types of devices are limited to 1:1.

The results documented in this certificate relate only to the item(s) calibrated or tested. Calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of Larson . Davis Laboratories.

Technician: Brent Heaton

Service Center: Larson • Davis Laboratories, Utah

Signed: Broth





# Certificate of Calibration and Conformance

Certificate Number 2006-85905

Instrument Model 2900, Serial Number 0982, was calibrated on 18OCT2005. The instrument meets factory specifications per Procedure D0001.8146, ANSI S1.11 1986, ANSI S1.4 1983, ANSI S1.9-1996 Class 1, IEC 651-Type 1 1979, and IEC 804-Type 1 1985, IEC1043-1993 Class 1 when normalized.

Instrument found to be in calibration as received: NO

Date Calibrated: 18OCT2005 Calibration due: 18OCT2007

# Calibration Standards Used

MANUFACTURER	MODEL	SERIAL NUMBER	INTERVAL	CAL. DUE	TRACEABILITY NO	
Larson Davis	LDSigGn/2209	0617 / 0104	12 Months	31JAN2007	2006-76574	

Reference Standards are traceable to the National Institute of Standards and Technology (NIST)

## Calibration Environmental Conditions

Temperature: 24 ° Centigrade

### Affirmations

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the U.S. National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at Corporate Headquarters. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

This calibration complies with the requirements of ISO 17025 and ANSI Z540. The collective uncertainty of the Measurement Standard used does not exceed 25% of the applicable tolerance for each characteristic calibrated unless otherwise noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. A one year calibration is recommended, however calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of the issuer.

"As received" data unavailable due to unit failure.

CORPORATE HEADQUARTERS

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Tel: 801-375-0177 Fax: 801-375-0182 info@LarsonDavis.com www.LarsonDavis.com Signed:

Technician: Sean Childs

SALES OFFICE

3425 Walden Avenue

Relative Humidity: 32 %

Depew, New York 14043-2495 USA Toll Free: 888-258-3222

> Tel: 716-926-8243 Fax: 716-926-8215 info@LarsonDavis.com

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