

Calibration Report: Pressure Transducer

25 November 2003

Bryan Fabbri
Analytical Services and Materials, Inc.
Hampton, Virginia

Summary

Calibration Date: 25 November 2003

Next Calibration Date: 25 November 2004

A collection, analysis and calibration of data from Pressure Transducer, S/N 1370787 has been completed. The calibrations were performed by the manufacturer Setra Systems, Inc. These data were collected by Setra Systems, Inc. 25 November 2003.

MODEL : 270

SERIAL NUMBER : 1370787

RANGE: 800–1100 HPA/Mb

The test data presented in data table format show the transducer output in VDC as it is to its applied pressure in millibars (Mb). The Non–linearity errors and extrapolated errors in %FS (full scale) are noted. This unit meets the specifications detailed on the next page.

APPLICATION: Add corrections to measurements per calibration data if applicable.



Calibration Certificate

Technician: LK *A/K*
Part No: 270100-01-623
Model: 270

Serial No: 1370787 Range: 800 to 1100 HPA/MB
Work Order: R55542 Nom. Output: 0 to 5 VDC
Date: 11/25/2003 Supply: 12VDC

CALIBRATION DATA

APPLIED PRESSURE (HPA/MB)	TRANSDUCER OUTPUT (VDC)	NONLINEARITY ERRORS (% FS)	EXTRAPOLATED ERRORS (% FS)
800.0000	-0.0003	0.000	Zero -0.005
900.0000	1.6667	0.003	
1000.0000	3.3330	-0.009	Span 0.011
1100.0000	5.0003	0.000	

SPECIFICATIONS

1. Nonlinearity: +/- 0.05 %FS, END POINT method, ISA.#S-37.1
2. Zero pressure output: 0 VDC +/- 0.1 %FS
3. Full Scale output: 5 VDC +/- 0.1 %FS
4. This unit meets the specifications defined above.

NOTES

1. All errors are expressed as: Percent Full-Scale output.
2. Consult specification sheet for additional specifications.
3. This calibration is certified per N.I.S.T. traceable primary standards.
Primary standard: DHI, NIST# 821/265025-01
Primary standard cal. date: 4-30-03
Location of cal.: INPCCTR1
4. This part uses spec. record number: 270100-01-623.15
5. This certificate cannot be reproduced except in full, without the written approval of Setra Systems, Inc.

COMMENTS

AS RECEIVED IN SPEC. RECERTIFIED.
OPTIONS: 623, 703, 810