

# Calibration Report: Pressure Transducer

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## Summary

Calibration Date: 21 June 2001    Next Calibration Date: 21 June 2002

A collection, analysis and calibration of data from Setra Pressure Transducer, S/N:1339467 has been completed. The calibration was performed by the calibration library, Setra. This data was collected by Setra, on June 21, 2001.

MODEL: 370

SERIAL NUMBER: 1339467

The test data presented in data table format show the transducers deviation and correction in hPa. The calibration uncertainty is given at 95% confidence level.

Note: Units in hPa per user's request.

APPLICATION: Add corrections to measurements per post calibration table.

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# Calibration Certificate

Technician: JR  
Part No: 370100-07  
Model: 370

Serial No: 1339467      Range: 600 to 1100 MBAR  
Work Order: 64553-1      Nom. Output: 600 to 1100 MBAR  
Date: 06/21/2001      Supply: 115 VAC

## CALIBRATION DATA

(Temp. 70.0°F +/- 0.5°F)

APPLIED PRESSURE (%FS)	APPLIED PRESSURE (MBAR)	TRANSDUCER OUTPUT (MBAR)	ABSOLUTE ERROR (MBAR)
120.00	600.0000	600.0000	0.0000
170.00	850.0000	850.0000	0.0000
220.00	1100.0000	1100.0000	0.0000

## SPECIFICATIONS

1. Accuracy specification: +/- 0.02 %FS, at 70°F
2. Nonlinearity: +/- 0.01 %FS, TERMINAL method, ISA.#S-37.1
3. Hysteresis: +/- 0.01 %FS
5. This unit meets the specifications defined above.

## NOTES:

1. Accuracy is RSS of Non-Linearity, Hysteresis, and Non-Repeatability.
2. All errors are expressed as: Percent Full-Scale output.
3. Consult specification sheet for additional specifications.
4. This calibration of pressure measurement is certified per NIST traceable primary standards in Setra Systems' calibration laboratory and represents performance throughout the specified pressure range within published specifications. The Model 370 has built-in conversion from pressure to altitude calculated from the Standard Atmosphere, A.S.I. determination after station elevation has been entered, and local barometric pressure correction to display true altitude.  
Primary standard: P2-325/C2-319, NIST# 838/258930-97/DH9195  
Primary standard cal. date: 8/26/99  
Location of cal.: PCCTR1
5. This part uses spec. record number: 370100-07.1
6. This certificate cannot be reproduced except in full, without the written approval of Setra Systems, Inc.

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