

Calibration Report: Digital Pressure Gauge

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Summary

Calibration Date: 6 June 2009

Next Calibration Due: 6 June 2011

A collection, analysis and calibration of data from a Digital Setra Pressure Gauge, S/N: 1339467 has been completed. The calibration was performed by Setra (the manufacturer). These data were collected by Setra on 6 June 2009.

MODEL: 370

SERIAL NUMBER: 1339467

The test data presented in data table format show the digital pressure gauge results in "as received" and "after minor calibration" (located on the bottom of the calibration sheets in the "COMMENTS" section). The results show over the instruments full range (600-1100mb), the average absolute error was 0.17mb as received. After recalibration, the absolute error was reduced to 0.004mb. The accuracy specification is +/- 0.02% FS (Full Scale). This pressure gauge meets the specifications defined according to the calibration documents.

Please refer to the calibration sheets on the following pages for more detailed information.

APPLICATION: Primarily used as a stand alone unit. Plug in to any AC power source.



Calibration Certificate

Technician: SK *[Signature]*
Part No: 370100-07
Model: 370

Serial No:1339467
Work Order:R69851
Date:06/09/2009

Range:600 to 1100 MBAR
Nom.Output:600 to 1100 MBAR
Supply: 115VAC

CALIBRATION DATA

(Temp. 70.0°F +/- 5.0°F)

APPLIED PRESSURE (%FS)	APPLIED PRESSURE (MBAR)	TRANSDUCER OUTPUT (MBAR)	NONLINEARITY ERROR (%FS)	ABSOLUTE ERROR (MBAR)
0.00	600.0000	600.2200	0.0000	0.2200
25.00	725.0000	725.1900	-0.0010	0.1900
50.00	850.0000	850.1700	0.0000	0.1700
75.00	975.0000	975.1300	-0.0030	0.1300
100.00	1100.0000	1100.1200	0.0000	0.1200

REJECT CALIBRATION: ZERO OUT OF SPEC.
REJECT CALIBRATION: SPAN OUT OF SPEC.

SPECIFICATIONS

1. Accuracy specification: +/- 0.02 %FS, at 70°F
2. Nonlinearity: +/- 0.01 %FS, END POINT method, ISA.#S-37.1
3. Hysteresis: +/- 0.01 %FS
4. Non-Repeatability: +/- 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: DHI Model PPC3-2M A2MP/A200KP SN 144, NIST# DHI Report # 63312 Primary standard cal. date: 10/8/08 - 10/8/09 Location of cal.: PCCTR1
5. This part uses spec. record number: 370100-07.23
6. This certificate cannot be reproduced except in full, without the written approval of Setra Systems, Inc.

COMMENTS

As received at 159 Swanson Road, Boxborough, MA 01719/Telephone 1-800-257-3872, (978) 263-1400



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0.00	600.0000	600.0100	0.0000	0.0100
25.00	725.0000	725.0000	-0.0020	0.0000
50.00	850.0000	850.0000	-0.0010	0.0000
75.00	975.0000	974.9900	-0.0030	0.0100
100.00	1100.0000	1100.0000	0.0000	0.0000

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COMMENTS

Minor recalibration. Recertified
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