

# Calibration Certificate

Accredited Calibration



Cal Cert ID: 206133

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Cust. Name: WASHINGTON STATE PATROL

Address: 2502 112TH  
ST E

City: TACOMA

State/Zip: WA 98445 US

Instr SN: 41000601/651369

Out1 Min Range: 8.0000 psi

Cal Date: 01/13/2022

Instr Descr: CPG2400

Out1 Max Range: 17.0000 psi

Cal Time: 7:19 am

Sensor SN: 41000601/651369

Limit of Error: 0.030% R

Issue Date: 01/13/2022

Sensor Descr: Silicon Pressure Transducer

Cal Tech: JUDYD

Procedure ID: WI02063

Pressure Type: Absolute

Order Nbr: 42349

## Test Points Values and Readings

Test Point #	Reference Value PSI	Measured Values psi	Error % R	Uncertainty psi
1	8.00280	8.0028	0.0000	1.9E-4
2	9.80255	9.8029	0.0036	2.2E-4
3	11.60233	11.6029	0.0049	2.6E-4
4	13.40217	13.4030	0.0062	3.0E-4
5	15.20200	15.2031	0.0072	3.4E-4
6	17.00189	17.0031	0.0071	3.8E-4
7	15.20201	15.2031	0.0072	3.4E-4
8	13.40216	13.4030	0.0063	3.0E-4
9	11.60218	11.6029	0.0062	2.6E-4
10	9.80261	9.8029	0.0030	2.2E-4
11	8.00275	8.0027	-0.0007	1.9E-4

## Measurement Standards Used in Calibration

Std Type	Serial Number	Description	Assoc. Test Reports	Recal Date
CPD8000	10017/10016/9994	DH CPD 8000	CAL ID: 205428	12/14/2024

The combined and expanded uncertainty is reported at K=2 providing an approximate 95% confidence level.

## Remarks and Notes

As Found Calibration.

An asterisk denotes a measurement error on a calibration that exceeds the limit of error (Tolerance Limit) based on simple acceptance regardless of uncertainty.

Dash numbers preceded by the sensor SN reference a primary (-1) or turndown (-2) range.

The standards and calibration program at Mensor complies with the requirements of ISO/IEC 17025:2017, ANSI/NCSL Z540-1 and Mensor Management Manual MM 3.0, Revision C, dated November 18, 2020.

Metrological traceability is established through accreditation by the American Association for Laboratory Accreditation (A2LA), a signatory subject to the International Laboratory Accreditation Cooperation (ILAC) Arrangement as described in Annex A of ISO 17025:2017. All calibrations are performed in ambient conditions of 23 +/- 4 deg C and 20-80% relative humidity.

The results reported herein relate only to the item calibrated. This calibration certificate shall not be reproduced, except in full, without the written approval of Mensor.



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Transducer was calibrated in a horizontal position.  
Prior to the as-found calibration, the zero was adjusted 0.0034 psi.

I, Judy Dosal, certify the accuracy of this Calibration Certificate:

A handwritten signature in black ink, appearing to read "Judy Dosal", is written over a horizontal line.

Calibration Lab Technician

#### **Mensor Calibration Certificates and Stickers**

Mensor calibration certificates and stickers do not contain calibration intervals unless specified by the customer, as Mensor will not dictate to our customers when they should re-calibrate their instruments.

The Calibration Sticker that is with this product is for your records. Due to the various location requirements of our customers, we do not affix the Calibration Sticker to the product.

For Mensor products, refer to the Calibration Section of your operation manual for the recommended calibration interval.

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Cust. Name: WASHINGTON STATE PATROL

Address: 2502 112TH  
ST E

City: TACOMA

State/Zip: WA 98445 US

Instr SN: 41000601/651369

Out1 Min Range: 8.0000 psi

Cal Date: 01/13/2022

Instr Descr: CPG2400

Out1 Max Range: 17.0000 psi

Cal Time: 7:40 am

Sensor SN: 41000601/651369

Limit of Error: 0.030% R

Issue Date: 01/13/2022

Sensor Descr: Silicon Pressure Transducer

Cal Tech: JUDYD

Procedure ID: WI02063

Pressure Type: Absolute

Order Nbr: 42349

## Test Points Values and Readings

Test Point #	Reference Value PSI	Measured Values psi	Error % R	Uncertainty psi
1	8.00286	8.0028	-0.0007	1.9E-4
2	9.80264	9.8026	-0.0004	2.2E-4
3	11.60240	11.6024	0.0000	2.6E-4
4	13.40222	13.4024	0.0013	3.0E-4
5	15.20204	15.2023	0.0017	3.4E-4
6	17.00199	17.0021	0.0007	3.8E-4
7	15.20204	15.2023	0.0017	3.4E-4
8	13.40222	13.4024	0.0013	3.0E-4
9	11.60236	11.6024	0.0004	2.6E-4
10	9.80261	9.8026	-0.0001	2.2E-4
11	8.00277	8.0027	-0.0009	1.9E-4

## Measurement Standards Used in Calibration

Std Type	Serial Number	Description	Assoc. Test Reports	Recal Date
CPD8000	10017/10016/9994	DH CPD 8000	CAL ID: 205428	12/14/2024

The combined and expanded uncertainty is reported at K=2 providing an approximate 95% confidence level.

## Remarks and Notes

As Left Calibration.

Recalibration Date: 01/13/2023

An asterisk denotes a measurement error on a calibration that exceeds the limit of error (Tolerance Limit) based on simple acceptance regardless of uncertainty.

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Transducer was calibrated in a horizontal position.

I, Judy Dosal, certify the accuracy of this Calibration Certificate:

Calibration Lab Technician

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1/20/22