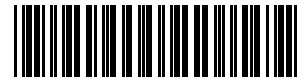




Calibration Certificate



No. 712734



Customer Name: **SENSOR PROS SENSORS & INSTRUMENTATION**

Customer Address: **3245 VIA MARIN
LA JOLLA, CA 92037**

AGI W O # : **65810**
Cust P O # : **PO-313J-1**

This certificate applies only to the item specified below and shall not be reproduced, except in full, without prior written approval from American Gage.

Equipment Serviced

Description:	PRESSURE TRANSDUCER	Asset/ID:	11207485
Manufacturer:	DRUCK	Serial:	11207485
Model:	PMP5063-TC-A2-CA-H0-PE	Range/Size:	0-2000 PSIA, 0-5 VDC

Service Information

Tolerance/Accuracy:	$\pm 0.1\%$ FS BSL	As Received Condition:	WITHIN SPECS
Procedure:	33K6-4-1425-1	As Returned Condition:	WITHIN SPECS
Service Location:	AG LAB	Cal/Service Result:	PASS
Performed By:	26 B HOPPE	Cal/Service Interval:	12 MONTHS
Temperature:	21 °C	Cal/Service Date:	3/15/2019
Humidity:	44 %R.H.	Customer Req. Due:	3/15/2020

Standards Employed

Standard	Manufacturer	Model	Description	Specifications	Cal Due	Trace No.
241	RUSKA	7215I	PRESSURE STANDARD	MFR SPECS	4/23/2019	RPV14-0423/241-18
248	HART SCIENTIFIC	2626-S	Temperature & Humidity Sensor	MFR SPECS	8/17/2019	RTH7-0817/248-18
584	AGILENT	3458A	DIGITAL MULTIMETER	MFR SPECS	2/19/2020	REL17-0219/584-19
850	FLUKE	7250xi	Pressure Controller/Calibrator	-14-2500 PSI	1/9/2020	RPV1-0109/850-19

Remarks

See one (1) page of attached Calibration Data Report for further details.

Sample Calibration Certificate only.

American Gages certifies: This calibration is accredited to ISO/IEC 17025. The American Gage quality system complies with ISO/IEC 17025, ANSI/NC SL Z540.1, ANSI/NC SL Z540.3, ISO 9001 and/or contractual requirements. The instrument serviced, unless otherwise specified, was verified for conformance and meets accepted industry and/or manufacturer specifications and was calibrated/serviced employing, as required, standards/instruments traceable to the National Institute of Standards and Technology (NIST) and/or accepted industry standards. This calibration certificate may contain data that is not covered by the Scope of Accreditation. The unaccredited test points, where applicable, are marked as indicated. Any test uncertainty ratio (TUR) less than 4:1 that is not an industry and/or a manufacturer accepted ratio appears in the remarks section. Functional Tests are not accredited. The statements of compliance with specifications are based on approximately 95% confidence level with a coverage factor of k=2 for the expanded uncertainty of measurement results on which the decision is based. For TUR's of 3:1 simple acceptance criteria is used to determine Pass or Fail. For TUR's of <3:1, excluding industry acceptable standards, guard-band limits are used to determine Pass or Fail. The content of this report was reviewed and approved, as indicated below, by an authorized American Gage Quality Assurance representative.

Performed by:
26 B HOPPE

3/15/2019

26

Reviewed and Issued by:
Bart Boucher

Issue Date: 3/14/2019



Sample Calibration Data Report

Druck PMP5063-TC-A2-CA-H0-PE (0 to 2000 PSIA)

ID Number: 11207485	Work Order: 712734
Serial No.: 11207485	Date Calibrated: 03/15/19
Input: 0 to 2000 PSIA	Calibration Gas: N2
Output: 0 to 5 VDC	Excitation: 24 VDC
BFSL Tolerance (±): 0.10% FS	Ambient Pressure: 14.60 PSIA

Applied PSIA	Nominal VDC	UUT Output VDC	mV/PSIA mV	Lo Limit VDC	Hi Limit VDC	BFSL VDC	BFSL FS Error %	Result Pass/Fail	Expanded Uncertainty (±)
14.60	0.0000	0.0363	2.49	0.0301	0.0401	0.0351	-0.02%	Pass	0.07%
400.00	1.0000	0.9980	2.50	0.9933	1.0033	0.9983	0.01%	Pass	0.036%
800.00	2.0000	1.9970	2.50	1.9929	2.0029	1.9979	0.02%	Pass	0.031%
1200.00	3.0000	2.9965	2.50	2.9925	3.0025	2.9975	0.02%	Pass	0.029%
1600.00	4.0000	3.9969	2.50	3.9921	4.0021	3.9971	0.00%	Pass	0.029%
2000.00	5.0000	4.9979	2.50	4.9917	5.0017	4.9967	-0.02%	Pass	0.028%
1200.00	3.0000	2.9965	2.50	2.9925	3.0025	2.9975	0.02%	Pass	0.029%
14.60	0.0000	0.0355	2.43	0.0301	0.0401	0.0351	-0.01%	Pass	0.071%

Note: The Expanded Measurement Uncertainty is the Root Sum Squared (RSS) calculation of Applied Pressure Uncertainty and Measured Output Signal Uncertainty to determine Best Fit Straight Line (BFSL) expressed at approximately a 95% Confidence Level k=2.

