

**Customer:** MESA LABORATORIES  
12100 WEST 6TH AVE  
LAKEWOOD, CO 80228

**PO Number:** PO-015366



**Certificate/SO Number: 5-B8L9H-20-1 Revision 0**

**Manufacturer:** Druck/Unomat/GE Sensing/Kaye  
**Model Number:** DPI 520  
**Description:** Pressure Calibrator  
**Serial Number:** 0417/97-4  
**ID:** TE10226

**As-Found:** In Tolerance  
**As-Left:** In Tolerance

**Calibration Date:** Aug 07, 2018  
**Due Date:** Aug 07, 2019

**Calibrated To:** Manufacturer Specification  
**Calibration Procedure:** 1-AC19457-0

Transcat Calibration Laboratories have been audited and found in compliance with ISO /IEC 17025:2005. Accredited calibrations performed within the Lab's Scope of Accreditation are indicated by the presence of the Accrediting Body's Logo and Certificate Number. Any measurements on an accredited calibration not covered by that Lab's Scope of Accreditation are listed in the notes section of the certificate. SCC, NRC, CLAS or ANAB do not guarantee the accuracy of an individual calibration by accredited laboratories.

Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual QAC -P01-000 Revision 1.0, the customer's Purchase Order and/or Quality Agreement requirements, ISO 9001:2008, ANSI/NCSL Z540.1-1994 (R2002). Complete records of work performed are maintained by Transcat and are available for inspection. Laboratory standards used in the performance of this calibration are listed below.

Transcat documents the traceability of measurements to the SI units through the National Institute of Standards and Technology (NIST), or the National Research Council of Canada (NRC), or other national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Arrangement, or accepted fundamental and/or natural physical constants, or by the use of specified methods, consensus standards or ratio type measurements. Documentation supporting traceability information is available for review upon written request at a Transcat facility. The measured quantity and the measurement uncertainty are required for further dissemination of traceability.

Uncertainties are reported with a coverage factor k=2, providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless otherwise noted. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/cm<sup>3</sup>.

The results in this report relate only to the item calibrated or tested. Recorded calibration data is valid at the time of calibration within the stated uncertainties at the environmental conditions noted. The determination of compliance to the specification is specific to the model/serial no./ID no. referenced above based on the tolerances shown; these tolerances are either the original equipment manufacturers (OEM's) warranted specifications or the client's requested specifications. This certificate may not be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

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As Found/As Left Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	O O T	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
<b>Pressure Measure</b>										
Ambient Pressure	14.70psia	±( 0.025% Rdg + 1 LSD)	14.69	14.71	14.70 psia		2.4e-004	1.2e-002	psia	42.5 : 1
Pressure Linearity	1.45psia	±(0.005% FS + 1 LSD)	1.43	1.47	1.46 psia		2.3e-005	1.3e-002	psia	100.0 : 1
	20.35psia	±(0.005% FS + 1 LSD)	20.33	20.37	20.36 psia		4.5e-004	1.3e-002	psia	44.7 : 1
	39.88psia	±(0.005% FS + 1 LSD)	39.86	39.90	39.88 psia		8.8e-004	1.3e-002	psia	22.8 : 1
	59.82psia	±( 0.025% Rdg + 1 LSD)	59.80	59.84	59.83 psia		1.3e-003	1.1e-002	psia	15.2 : 1
	80.09psia	±( 0.025% Rdg + 1 LSD)	80.06	80.12	80.10 psia		1.8e-003	1.2e-002	psia	17.0 : 1
	99.96psia	±( 0.025% Rdg + 1 LSD)	99.93	99.99	99.96 psia		2.2e-003	1.2e-002	psia	13.6 : 1
	120.22psia	±( 0.025% Rdg + 1 LSD)	120.18	120.26	120.23 psia		2.6e-003	1.2e-002	psia	15.1 : 1
	139.89psia	±( 0.025% Rdg + 1 LSD)	139.85	139.93	139.89 psia		3.1e-003	1.2e-002	psia	13.0 : 1
	159.73psia	±( 0.025% Rdg + 1 LSD)	159.68	159.78	159.73 psia		3.5e-003	1.2e-002	psia	14.2 : 1
	179.99psia	±( 0.025% Rdg + 1 LSD)	179.94	180.04	179.99 psia		4.0e-003	1.2e-002	psia	12.6 : 1
199.89psia	±( 0.025% Rdg + 1 LSD)	199.83	199.95	199.88 psia		4.4e-003	1.2e-002	psia	13.6 : 1	
Hysteresis	120.22psia	±( 0.025% Rdg + 1 LSD)	120.18	120.26	120.22 psia		2.6e-003	1.2e-002	psia	15.1 : 1
	99.96psia	±( 0.025% Rdg + 1 LSD)	99.93	99.99	99.96 psia		2.2e-003	1.2e-002	psia	13.6 : 1
	80.10psia	±( 0.025% Rdg + 1 LSD)	80.07	80.13	80.10 psia		1.8e-003	1.2e-002	psia	17.0 : 1

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**Traceable Standards**

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
DW11BA	Fluke/DH Instruments	PG7601	Piston Gauge	1-Nov-17	30-Nov-18	5-&DW11BA-5-1	AF/AL
DW11MASS	Fluke/DH Instruments	MS-AMH-38	AMH Mass Set	4-Apr-18	30-Apr-19	5-&DW11MASS-2-1	AF/AL


The use of the standard is defined as: **AF** - used for as-found readings, **AL** - used for as-left readings.


**Environmental Data**

Temperature	Relative Humidity	Temp / RH Asset
66.65°F /19.25°C	50.00%	Dewk14

**Calibrated At:**  
1181 Brittmoore Road  
Houston, TX 77043

**Facility Responsible:**  
1181 Brittmoore Road  
Houston, TX 77043  
800-828-1470

**Calibrated By:**  
 **Electronically Signed By:**  
Fritz Cardona

**Reviewed By:**  
 **Electronically Signed By:**  
Michael Pennock for

Fritz Cardona Aug 07, 2018  
Calibration Technician 16:32:38 -04:00

Scott D. Caine Aug 07, 2018  
Lab Manager 16:34:56 -04:00



**Date Received:** July 16, 2018  
**Service Level:** R9