



# SOUTHWEST RESEARCH INSTITUTE®

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## Certificate of Calibration

0972-01

**Submitted By:** DIV20  
**Address:** B57  
**Contact:** DON BANNON  
**Manufacturer Model:** PAROSCIENTIFIC 740-45A  
**Description:** PRESSURE GAUGE, DIGITAL  
**Serial No:** 60999  
**Asset No:** 003972  
**Procedure:** CLCP-PI-001, JUN/99

**Work Order:** 303065820  
**Date Issued:** Oct 6, 2005  
**Calibration Date:** Oct 6, 2005  
**\*Calibration Due:** Apr 6, 2006  
**Calibration Location:** Bldg. 64  
**Environment:** Temp. 68.0°F Hum. 40 %RH  
**\*\*Data Type:** FOUND-LEFT

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 1999, ANSI/NC SL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

\*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. \*\*Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The client has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance. See Remarks or attached Measurement Report with the same Work Order number for data.

Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of k=2 to approximate a 95% confidence level.

**Remarks:** Accuracy +/- 0.025% of Full Scale

### Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
003216	2582	HASTINGS	VT-6B	VACUUM GAUGE	Dec 16, 05
003220	2581	HASTINGS	VT-6B	VACUUM GAUGE	Nov 15, 05
003949	3949	TROEMNER	5MG-100G	WEIGHT SET, CLASS 1	Feb 10, 06
005141	38936(18-31)	RUSKA	2468-714-69900	WEIGHT SET, CLASS S	Jan 22, 07
005332	TL1352	RUSKA	2468-758	DEAD WEIGHT PISTON	Mar 30, 07
008546	8546	RUSKA	16-23C	THERMOMETER	Mar 01, 07

Reviewed by: blt ( ) jrg ( ) pwc ( ) wgh ( )  
Metrology Technician

Measurements by: Perry Carpenter  
Metrology Technician

Southwest Research Institute  
Calibration Laboratory  
Measurement Report

Work Order	303065820	Mfr	Paroscientific	Technician	PWC
Asset No.	003972	Model	740-45A		
Serial No.	60999	Type	Digital Pressure Gauge	Cal Date	06-Oct-05
Remarks:	Accuracy +/- 0.025% of Full Scale.				

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Pressure	PSIA	PSIA	PSIA	PSIA	PSIA	Result
	0.0008	-0.0018	-0.0026	0.0113	0.00012	Pass
	11.2529	11.2537	0.0008	0.0113	0.00046	Pass
	22.5029	22.5059	0.0030	0.0113	0.00091	Pass
	33.7529	33.7574	0.0045	0.0113	0.0014	Pass
	42.7529	42.7600	0.0071	0.0113	0.0017	Pass
	33.7529	33.7581	0.0052	0.0113	0.0014	Pass
	22.5029	22.5073	0.0044	0.0113	0.00091	Pass
	11.2529	11.2557	0.0028	0.0113	0.00046	Pass
	0.0008	-0.0018	-0.0026	0.0113	0.00012	Pass
END OF REPORT						