



SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems
Institute Calibration Laboratory
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Calibration Laboratory
Certificate #0972-01

Certificate of Calibration

Cost Center / Customer: DIV20 / DON BANNON

Mail Stop: B57

Manufacturer/Model: OMEGA / PGU-35L-30PSI/2BAR

Description: PRESSURE GAUGE

Serial Number: HB

Asset Number: 015565

Procedure: PRESSURE GAGES - 29 MAR 06

Work Order: 303100213

Date Issued: 15-Mar-2011

Date Calibrated: 15-Mar-2011

*** Date Due :** 15-Mar-2012

**** Results:** FOUND-LEFT

Temperature: 69.0 °F

Humidity: 40 %RH

Barometer: N/A

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, 2005, ANSI/NCSL 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. **Data type found in this certificate or attached measurement report must be interpreted as: Found-left - adjustment and/or repair was not performed, As-found - data is before unit is adjusted and/or repaired, As-left - data is after adjusted and/or repaired was performed. The customer has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance.

Measurement uncertainty calculated in accordance with the method described in the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM), for a confidence level of approximately 95 percent using a coverage factor of $k=2$.

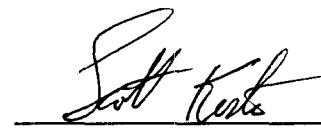
Remarks: ASME Grade B Tolerance(2% Middle Half, 3% First and last Quarter of Dial)

Standards Used

<u>Asset #</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Description</u>	<u>Cal Date</u>	<u>Due Date</u>
010417	MENSOR	2101	PRESSURE GAUGE, DIGITAL	16-Aug-2010	16-Aug-2011


Walt Hill

Laboratory Manager


Scott Kester

Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303100213	Mfr:	Omega	Technician:	SRK
Asset No:	015565	Model:	PGU-35L-60psi/4Bar	Type Data:	Found-left
Serial No:	HB	Type:	Pressure Gauge	Cal Date:	15-Mar-11
Remarks: ASME Grade B Tolerance (2 % Middle Half, 3 % First and Last Quarter of Dial)					

Function/Range	Test Point	TI Reading	Difference	± Limit	± Uncertainty	Result	% Limit
Pressure	psi	psi	psi	psi	psi		
	0	0.0	0.0	1.8	0.58	Pass	0%
	15	14.4	-0.6	1.2		Pass	50%
	30	29.8	-0.2	1.2		Pass	17%
	45	44.6	-0.4	1.2		Pass	33%
	57	56.2	-0.8	1.8		Pass	44%
	45	44.7	-0.3	1.2		Pass	25%
	30	29.8	-0.2	1.2		Pass	17%
	15	14.3	-0.7	1.2		Pass	58%
	0	0.0	0.0	1.8		Pass	0%

END OF REPORT