



SOUTHWEST RESEARCH INSTITUTE™

6220 Culebra Road, P.O. Drawer 28510
Institute Quality Systems
Institute Calibration Laboratory
Phone: 210-522-5215 Fax 210-522-3692



Certificate #

0972-01

Certificate of Calibration

Submitted By: DIV20

Address: B57

Contact: LIETAI YANG

Manufacturer Model: U.S. GAUGE 0 - 30

Description: PRESSURE GAUGE

Serial No: 10828

Asset No: 010828

Procedure: CLCP-PI-001, JUN/99

Work Order: 444058600

Date Issued: Apr 21, 2004

Calibration Date: Apr 20, 2004

****Calibration Due:**

Calibration Location: Bldg. 64

Environment: Temp. 68.0°F Hum. 44 %RH

***As Found:** LIMITED CALIBRATION

***As Left:** LIMITED CALIBRATION

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 and ANSI/NCSL Z540-1-1994 which are equivalent to relevant requirements of the ISO 9000-1994 series of standards. This certificate may not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. The results of this calibration relate only to the individual instrument described above. This certificate shall not be used to claim product endorsement by the American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government.

Uncertainty evaluation includes the item under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor of $k=2$ to approximate a 95% confidence level. The calibration process provides a Test Uncertainty Ratio (TUR) of less than or equal to 25% (4:1) of the test limit unless otherwise stated in remarks or an attachment.

*The client has sole responsibility for determination of in/out of tolerance or compliance/noncompliance. An in/out of tolerance opinion is provided for your convenience based only on the Test Instrument (TI) reading(s) and limits as reported. The reported uncertainty relates only to the results at the time of calibration and does not imply any short or long term stability of the TI.

**Calibration interval is determined by the client and does not assure the instrument will remain within tolerance until this date. Any number of factors may cause the instrument to be out of tolerance before the next calibration date.

Remarks: Limited:Not Cal'd Above 15 PSI.

Standards Used

Asset	Manufacturer	Model	Description	Cal Due
010420	MENSOR	2101	DIGITAL PRESSURE GAUGE	Sep 02, 04

Approved by: Walt Hill
Metrology Group Leader

m:\a2la1.rpt Rev date 15, August 02

Measurements by: Perry Carpenter
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Calibration Report

Work Order	444058600	Mfr	U.S. Gauge	Technician	PWC
Asset No.	010828	Model	0-30		
Serial No.	10828	Type	Pressure Gauge	Cal Date	20-Apr-04
Remarks: Limited: Not Calibrated above 15 PSI.					

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Pressure	PSI	PSI	PSI	PSI	PSI	Result
	0.0	0.0	0.0	0.9	0.6	Pass
	5.0	5.0	0.0	0.6	0.6	Pass
	10.0	10.0	0.0	0.6	0.6	Pass
	15.0	15.0	0.0	0.6	0.6	Pass
	10.0	10.0	0.0	0.6	0.6	Pass
	5.0	5.0	0.0	0.6	0.6	Pass
	0.0	0.0	0.0	0.9	0.6	Pass

END OF REPORT