



SOUTHWEST RESEARCH INSTITUTE®

6220 Culebra Road, P.O. Drawer 28510
Institute Quality Systems
Institute Calibration Laboratory
Phone: 210-522-5215 Fax 210-522-4834



Calibration Laboratory
Certificate #0972-01

Certificate of Calibration

Submitted By: DIV20

Address: B57

Contact: DON BANNON

Manufacturer / Model: WIKA / 0 to 30 in. Hg

Description: PRESSURE GAUGE

Serial No: 10704

Asset No: 010704

Procedure: PRESSURE GAGES - 29 MAR 06

Work Order: 303078867

Date Issued: Jan 30, 2008

Calibration Date: Jan 30, 2008

***Calibration Due:** Jan 30, 2009

Calibration Location: Bldg. 64

Environment: Temp. 68.0°F Hum. 40 %RH

****Data Type:** FOUND-LEFT

DivID/Location: 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/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: ASME Grade B Tolerance (2% Middle Half, 3% First and Last Quarter of Dial)

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
005259	340119B	MENSOR	5014	PRESSURE CALIBRATOR	May 30, 08

Walt J. Lee
Reviewed by: () srk () mar (x) wgh

Perry Carpenter
Measurements by: Perry Carpenter
Metrology Technician

Southwest Research Institute
 Calibration Laboratory
 Measurement Report

Work Order:	303078867	Mfr:	Wika	Technician:	PWC
Asset No:	010704	Model:	0-30 in/Hg	Cal Date:	30-Jan-08
Serial No:	10704	Type:	Pressure Gauge		
Remarks:	Meets ASME Grade B Tolerance (2% Middle Half, 3% First and Last Quarter of Dial)				
	Referenced to 0°C.				

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Pressure	in/Hg	in/Hg	in/Hg	in/Hg	in/Hg	Result
	0.0	0.0	0.0	0.9	0.29	Pass
	-7.5	-7.5	0.0	0.6	0.29	Pass
	-15.0	-15.1	-0.1	0.6	0.29	Pass
	-22.5	-22.6	-0.1	0.6	0.29	Pass
	-28.5	-28.6	-0.1	0.9	0.29	Pass
	-22.5	-22.6	-0.1	0.6	0.29	Pass
	-15.0	-15.1	-0.1	0.6	0.29	Pass
	-7.5	-7.5	0.0	0.6	0.29	Pass
	0.0	0.0	0.0	0.9	0.29	Pass

END OF REPORT