

SOUTHWEST RESEARCH INSTITUTE

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To: Don Barron, Div 20, Bldg 51

From: Walt Hill, Manager
Institute Calibration Laboratory

Date: Oct. 02, 2008

Subject: Out-of-tolerance Notice

The purpose of this notice is to alert you of a condition, which may have caused erroneous measurements affecting safety or the quality of products or services your organization provides. The attached as-found readings are provided for your evaluation to determine if the instrument listed below had an impact and if further action is required.

Your review/evaluation should be conducted in accordance with your organizational quality policy and procedural requirements. Please contact the Institute Calibration Laboratory if you have questions at 5215.

Manufacturer: Wika **Model:** 0-100 PSI

Description: Pressure Gauge **Serial Number:** 9996

Asset Number: 009996 **User ID Number:**

Last Calibration: Jan. 21, 2003

Date Received for Service: Sep. 25, 2008 **Work Order Number:** 303083620

Service Requested: Scheduled calibration

Remarks: Unit exceeds limits. Please see Measurement Report.

OUT OF TOLERANCE

OUT OF TOLERANCE

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303083620	Mfr:	Wika	Technician:	PWC
Asset No:	009996	Model:	0-100 psi	Cal Date:	2-Oct-08
Serial No:	9996	Type:	Pressure Gauge		
Remarks:	Meets ASME Grade D Tolerance (5% of Full Scale)				

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found
Pressure	PSI	PSI	PSI	PSI	PSI	Result
	0	6	6	5	1.2	Fail
	25	30	5	5	1.2	Pass
	50	54	4	5	1.2	Pass
	75	78	3	5	1.2	Pass
	95	96	1	5	1.2	Pass
	75	78	3	5	1.2	Pass
	50	54	4	5	1.2	Pass
	25	30	5	5	1.2	Pass
	0	6	6	5	1.2	Fail

END OF REPORT



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: B51

Contact: DON BANNON

Manufacturer / Model: WIKA / 0 -100 psi

Description: PRESSURE GAGE

Serial No: 9996

Asset No: 009996

Procedure: PRESSURE GAGES - 29 MAR 06

Work Order: 303083620

Date Issued: Oct 2, 2008

Calibration Date: Oct 2, 2008

***Calibration Due:** Oct 2, 2009

Calibration Location: Bldg. 64

Environment: Temp. 68.0°F Hum. 40 %RH

****Data Type:** AS-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/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. **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: ANSI GRADE D TOLERANCE (5% FULL SCALE)

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
010417	531477	MENSOR	2101	DIGITAL PRESSURE GAUGE	Sep 05, 09

Reviewed by: () srk (/) mar () wgh

Measurements by: Perry Carpenter
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303083620	Mfr:	Wika	Technician:	PWC
Asset No:	009996	Model:	0-100 psi	Cal Date:	2-Oct-08
Serial No:	9996	Type:	Pressure Gauge		
Remarks:	Meets ASME Grade D Tolerance (5% of Full Scale)				

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Left
Pressure	PSI	PSI	PSI	PSI	PSI	Result
	0	0	0	5	1.2	Pass
	25	26	1	5	1.2	Pass
	50	50	0	5	1.2	Pass
	75	74	-1	5	1.2	Pass
	95	92	-3	5	1.2	Pass
	75	74	-1	5	1.2	Pass
	50	50	0	5	1.2	Pass
	25	26	1	5	1.2	Pass
	0	0	0	5	1.2	Pass

END OF REPORT