



# SOUTHWEST RESEARCH INSTITUTE®

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Institute Calibration Laboratory  
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Certificate #  
0972-01

## Certificate of Calibration

**Submitted By:** DIV20  
**Address:** B57  
**Contact:** BRADLEY WERLING  
**Manufacturer Model:** METTLER PR5002  
**Description:** BALANCE  
**Serial No:** 1122142733  
**Asset No:** 010225  
**Procedure:** BALANCES & SCALES, DEC/04

**Work Order:** 303064365  
**Date Issued:** May 23, 2005  
**Calibration Date:** May 23, 2005  
**\*Calibration Due:** Nov 23, 2005  
**Calibration Location:** B57  
**Environment:** Temp. 70.3°F Hum. 59 %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:** None

### Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
001704	C859	RICE LAKE	1G	WEIGHT, CLASS 1	Jun 23, 05
001714	C869	RICE LAKE	200G	WEIGHT, CLASS S	Jun 23, 05
001715	C870	RICE LAKE	500G	WEIGHT, CLASS S	Jun 23, 05
001716	C871	RICE LAKE	1KG	WEIGHT, CLASS 1	Jun 23, 05
001717	C872	RICE LAKE	2KG	WEIGHT, CLASS 1	Jun 24, 05
001718	C873	RICE LAKE	2KG	WEIGHT, CLASS 1	Jun 24, 05
001719	C874	RICE LAKE	5KG	WEIGHT, CLASS 1	Jun 23, 05
005566	B0113L004	MERIAN	A0030P	PRESSURE GAUGE, ABSOLUTE	Oct 13, 05
007290	T4830007	VAISALA	HM34F	HUMIDTY/ TEMPERATURE METER	Apr 11, 06

Approved by: Walt Hill  
Manager

Measurements by: Curtis Laurence  
Metrology Technician

Southwest Research Institute  
Calibration Laboratory  
Measurement Report

Work Order:	303064365	Mfr.	Mettler	Technician	WCL
Asset No.	010225	Model	PR5002	Cal Date.	23-May-05
Serial No.	1122142733	Type.	Balance		
Remarks:					
Ambient Conditions		70.3 deg F	59 % RH	14.24 PSIA	

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Repeatability Check	grams	grams	grams	grams	grams	Result
1	2000.00	2000.01				
2	2000.00	2000.02				
3	2000.00	2000.02				
4	2000.00	2000.02				
5	2000.00	2000.01				
6	2000.00	2000.01				
7	2000.00	2000.02				
8	2000.00	2000.01				
9	2000.00	2000.02				
10	2000.00	2000.02				
		Std Deviation	0.005	0.01		Pass
Offcenter Check						
Front	2000.00	2000.01	0.01	0.02	0.013	Pass
Right	2000.00	1999.99	-0.01	0.02	0.013	Pass
Rear	2000.00	2000.02	0.02	0.02	0.013	Pass
Left	2000.00	2000.02	0.02	0.02	0.013	Pass
Nonlinearity Check						
	0.00	0.00	0.00	0.02	0.013	Pass
	1250.00	1250.00	0.00	0.02	0.013	Pass
	2500.00	2500.02	0.02	0.02	0.013	Pass
	3750.00	3750.02	0.02	0.02	0.013	Pass
	5000.00	5000.01	0.01	0.02	0.013	Pass

End of Report