



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: DON BANNON

Manufacturer Model: METTLER PR5002

Description: BALANCE

Serial No: 1122142733

Asset No: 010225

Procedure: BALANCES & SCALES, DEC/04

Work Order: 303066799

Date Issued: Nov 14, 2005

Calibration Date: Nov 14, 2005

***Calibration Due:** May 12, 2006

Calibration Location: B57

Environment: Temp. 72.0°F Hum. 62 %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/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: None

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
001711	C866	RICE LAKE	50G	WEIGHT, CLASS S	Jul 06, 06
001712	C867	RICE LAKE	100G	WEIGHT, CLASS S	Jul 06, 06
001713	C868	RICE LAKE	200G	WEIGHT, CLASS S	Jul 06, 06
001714	C869	RICE LAKE	200G	WEIGHT, CLASS S	Jul 06, 06
001715	C870	RICE LAKE	500G	WEIGHT, CLASS S	Jul 06, 06
001716	C871	RICE LAKE	1KG	WEIGHT, CLASS S	Jul 06, 06
001717	C872	RICE LAKE	2KG	WEIGHT, CLASS 1	Jul 06, 06
001718	C873	RICE LAKE	2KG	WEIGHT, CLASS 1	Jul 06, 06
001719	C874	RICE LAKE	5KG	WEIGHT, CLASS 1	Jul 06, 06
005566	B0113L004	MERIAN	A0030P	PRESSURE GAUGE, ABSOLUTE	Apr 10, 06
007290	T4830007	VAISALA	HM34F	HUMIDITY/ TEMPERATURE METER	Apr 11, 06

Reviewed by: blt (✓) jrg () pwc () wgh ()
Metrology Technician

m:\a2la1.rpt Rev date August 15, 2005

Measurements by: Jude Morin
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303066799	Manufacturer:	Mettler	Technician:	jim
Asset Number:	010225	Model:	PR5002		
Serial Number:	1122142733	Type:	Balance	Cal Date:	14-Nov-05
Remarks:	Manufacturer does not provide corner load specifications. Corner load readings are without pass or fail indications.				
Ambient Conditions	72 ° F		62 % RH		14.24 PSIA

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Corner Load	grams	grams	grams	grams	grams	Result
Reference	2500.00	2500.00				
Front	2500.00	2500.00	0.00		0.011	
Rear	2500.00	2500.01	0.01		0.011	
Left	2500.00	2500.00	0.00		0.011	
Right	2500.00	2500.02	0.02		0.011	
Repeatability						
1	2500.00	2500.00				
2	2500.00	2500.00				
3	2500.00	2500.00				
4	2500.00	2500.01				
5	2500.00	2500.00				
6	2500.00	2500.00				
7	2500.00	2500.01				
8	2500.00	2500.00				
9	2500.00	2500.00				
10	2500.00	2500.01				
Std Deviation		0.005		0.005		Pass
Linearity	0.00	0.00	0.00	0.02	0.016	Pass
	500.00	500.00	0.00	0.02	0.016	Pass
	1000.00	1000.00	0.00	0.02	0.016	Pass
	1500.00	1500.00	0.00	0.02	0.016	Pass
	2000.00	2000.00	0.00	0.02	0.016	Pass
	2500.00	2500.00	0.00	0.02	0.016	Pass
	3000.00	3000.00	0.00	0.02	0.016	Pass
	3500.00	3500.00	0.00	0.02	0.016	Pass
	4000.00	4000.00	0.00	0.02	0.016	Pass
	4500.00	4500.01	0.01	0.02	0.016	Pass
	5000.00	5000.01	0.01	0.02	0.016	Pass

End of Report