		SOUTHWEST RESEARCH INSTITUTE [®] 6220 Culebra Road, P.O. Drawer 28510 Institute Quality Systems Institute Calibration Laboratory Phone: 210-522-5215 Fax 210-522-4834					
	®		0972-01				
	Submitted By:	DIV20	Work Order:	303064982			
	Address:	B57	Date Issued:	Jul 12, 2005			
	Contact:	JIM PRIKRYL	Calibration Date:	Jul 12, 2005			
Man	ufacturer Model:	OHAUS TS 400D	*Calibration Due:	Jan 12, 2006			
	Description:	BALANCE	Calibration Location:				
	Serial No:	2883		Temp. 69.0°F			
	Accet No.	002345	**Data Type:	FOUND-LEFT			
	Asset NU:	0020.0					
uality s be repro- product	Procedure: tificate documents transition to IS0 duced, except in full, endorsement by South	BALANCES & SCALES ceability to the National Instit D/IEC 17025, 1999, ANSI/NG without the written approval of west Research Institute, Ame	S, DEC/04 ute of Standards and Technology (NIST) and the International CSL Z540-1-1994 and relevant requirements of the ISO 9000- of the Southwest Research Institute Calibration Laboratory. The rican Association for Laboratory Accreditation (A2LA) or any ove at the time of calibration and does not imply any long term	2000 standard. Thin nis certificate shall agency of the U. S	is certificate shall not not be used to claim S. Government. Resu		
quality s be reproduct of bot this ca Determ his date letermin Reported incertair Remark	Procedure: tificate documents transition system conforms to ISG duced, except in full, endorsement by South alibration relate only the inied by the customer, . **Found/Left = adju- nation of in-/out-of-tol d uncertainty calculated inty with a coverage fa- as: None	BALANCES & SCALES ceability to the National Instit O/IEC 17025, 1999, ANSI/NG without the written approval of west Research Institute, Ame o the instrument described ab does not imply the instrument istment and/or repair was not erance or compliance/noncon	ute of Standards and Technology (NIST) and the International CSL Z540-1-1994 and relevant requirements of the ISO 9000- of the Southwest Research Institute Calibration Laboratory. The rican Association for Laboratory Accreditation (A2LA) or any ove at the time of calibration and does not imply any long term at will remain within tolerance as any number of factors may can required, As Left = adjusted and/or repaired was required. The pliance. See Remarks or attached Measurement Report with "Guide to the Expression of Uncertainty in Measurement" (Gi	2000 standard. Thin nis certificate shall y agency of the U. S n stability of the ins ause an out-of-toler he client has sole re- the same Work Ord	is certificate shall not not be used to claim S. Government. Resu strument. rance condition before sponsibility for der number for data.		
uality s be reproduct of f this ca Determin Reported ncertair Remark	Procedure: tificate documents transition system conforms to ISG duced, except in full, endorsement by South alibration relate only t alibration relate only t hined by the customer, **Found/Left = adju- lation of in-/out-of-tol d uncertainty calculate nty with a coverage fa	BALANCES & SCALES ceability to the National Instit D/IEC 17025, 1999, ANSI/NG without the written approval of west Research Institute, Ame o the instrument described ab does not imply the instrument istment and/or repair was not erance or compliance/noncom	ute of Standards and Technology (NIST) and the International CSL Z540-1-1994 and relevant requirements of the ISO 9000- of the Southwest Research Institute Calibration Laboratory. The rican Association for Laboratory Accreditation (A2LA) or any ove at the time of calibration and does not imply any long term at will remain within tolerance as any number of factors may can required, As Left = adjusted and/or repaired was required. The pliance. See Remarks or attached Measurement Report with "Guide to the Expression of Uncertainty in Measurement" (Gi	2000 standard. Thin nis certificate shall y agency of the U. S n stability of the ins ause an out-of-toler he client has sole re- the same Work Ord	is certificate shall not not be used to claim S. Government. Resu strument. rance condition befor sponsibility for der number for data.		
uality s e reprod roduct of f this ca Determin is date etermin eported ncertair cemark tandan sset No.	Procedure: tificate documents transition system conforms to ISG duced, except in full, endorsement by South alibration relate only t hined by the customer, **Found/Left = adju- nation of in-/out-of-tol d uncertainty calculate inty with a coverage far is: None	BALANCES & SCALES ceability to the National Instit D/IEC 17025, 1999, ANSI/NG without the written approval of west Research Institute, Ame o the instrument described ab does not imply the instrument istment and/or repair was not erance or compliance/noncon ed in accordance with the ISO ctor of k=2 to approximate a	ute of Standards and Technology (NIST) and the International CSL Z540-1-1994 and relevant requirements of the ISO 9000- of the Southwest Research Institute Calibration Laboratory. The rican Association for Laboratory Accreditation (A2LA) or any ove at the time of calibration and does not imply any long term at will remain within tolerance as any number of factors may con- required, As Left = adjusted and/or repaired was required. The pliance. See Remarks or attached Measurement Report with "Guide to the Expression of Uncertainty in Measurement" (Gi 95% confidence level.	2000 standard. Thin nis certificate shall y agency of the U. S in stability of the ins ause an out-of-toler is client has sole re- the same Work Ord UM) and represents	is certificate shall not not be used to claim S. Government. Resu strument. rance condition befor sponsibility for der number for data. s an expanded Cal Due		
uality s e reprod roduct of f this ca Determin is date etermin eported ncertair cemark tandar sset No. 07290	Procedure: tificate documents transition system conforms to ISG duced, except in full, endorsement by South alibration relate only the mined by the customer, **Found/Left = adjunct the adjunct of in-/out-of-tol d uncertainty calculated inty with a coverage far is: None rds Used Serial No.	BALANCES & SCALES ceability to the National Instit D/IEC 17025, 1999, ANSI/NG without the written approval of west Research Institute, Ame o the instrument described ab does not imply the instrument istment and/or repair was not erance or compliance/noncon id in accordance with the ISO ctor of k=2 to approximate a	ute of Standards and Technology (NIST) and the International CSL Z540-1-1994 and relevant requirements of the ISO 9000 of the Southwest Research Institute Calibration Laboratory. The rican Association for Laboratory Accreditation (A2LA) or any ove at the time of calibration and does not imply any long term t will remain within tolerance as any number of factors may car required, As Left = adjusted and/or repaired was required. The ppliance. See Remarks or attached Measurement Report with "Guide to the Expression of Uncertainty in Measurement" (Gi 95% confidence level. Model Description	2000 standard. Thin his certificate shall y agency of the U. S in stability of the inst ause an out-of-toler he client has sole re- the same Work Ord UM) and represents PERATURE METE	is certificate shall noi not be used to claim S. Government. Resu strument. rance condition befor isponsibility for der number for data. s an expanded Cal Due ER Apr 11, 06		
uality s e reproduct of f this ca Determin is date etermin Reported ncertair Remark standau ssset No. 07290 10442	Procedure: tificate documents transition system conforms to ISG duced, except in full, endorsement by South alibration relate only the mined by the customer, **Found/Left = adju- nation of in-/out-of-tol d uncertainty calculated inty with a coverage fa- is: None rds Used Serial No. T4830007	BALANCES & SCALES ceability to the National Instit D/IEC 17025, 1999, ANSI/NG without the written approval of west Research Institute, Ame o the instrument described ab does not imply the instrument astment and/or repair was not erance or compliance/noncon id in accordance with the ISO ctor of k=2 to approximate a Manufacturer VAISALA	wite of Standards and Technology (NIST) and the International CSL Z540-1-1994 and relevant requirements of the ISO 9000 of the Southwest Research Institute Calibration Laboratory. The rican Association for Laboratory Accreditation (A2LA) or any ove at the time of calibration and does not imply any long term it will remain within tolerance as any number of factors may car required, As Left = adjusted and/or repaired was required. The spliance. See Remarks or attached Measurement Report with "Guide to the Expression of Uncertainty in Measurement" (G 95% confidence level. Model Description HM34F HUMIDTY/ TEMF	2000 standard. Thin his certificate shall y agency of the U. S in stability of the instantion ause an out-of-toler he client has sole re- the same Work Ord UM) and represents PERATURE METE ASS 1	is certificate shall not not be used to claim S. Government. Resu strument. rance condition befor sponsibility for der number for data. s an expanded Cal Due		
uality s be reproduct of f this ca Determin Reported ncertair Remark	Procedure: itificate documents transition system conforms to ISG duced, except in full, endorsement by South alibration relate only the initial by the customer, . **Found/Left = adju- initiation of in-/out-of-tol d uncertainty calculated inty with a coverage fa- is: None rds Used Serial No. T4830007 A007	BALANCES & SCALES ceability to the National Instit D/IEC 17025, 1999, ANSI/NG without the written approval of west Research Institute, Ame o the instrument described ab does not imply the instrument istment and/or repair was not erance or compliance/noncon d in accordance with the ISO ctor of k=2 to approximate a Manufacturer VAISALA RICE LAKE	wite of Standards and Technology (NIST) and the International CSL Z540-1-1994 and relevant requirements of the ISO 9000 of the Southwest Research Institute Calibration Laboratory. The rican Association for Laboratory Accreditation (A2LA) or any ove at the time of calibration and does not imply any long term it will remain within tolerance as any number of factors may car required, As Left = adjusted and/or repaired was required. The ppliance. See Remarks or attached Measurement Report with "Guide to the Expression of Uncertainty in Measurement" (G 95% confidence level. Model Description HM34F HUMIDTY/ TEMF 10MG-100G WEIGHT SET, CL	2000 standard. Thin his certificate shall y agency of the U. S in stability of the instantiation ause an out-of-toler he client has sole re- the same Work Ord UM) and represents PERATURE METE ASS 1 1	is certificate shall noi not be used to claim S. Government. Resu strument. rance condition befor sponsibility for der number for data. s an expanded Cal Due ER Apr 11, 06 Apr 26, 06		

Kie 12 Approved by: Walt Hill

Scoff Kink Measurements by: Scott Kester

Measurements by: Scott Keste Metrology Technician

Page 1 of 1

Approved by: Walt Hill Manager m:\a2la1.rpt Rev date March 6, 2005

۰.

۰.

Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303064982	Manufacturer:	Ohaus		Technician:	SRK			
Asset Number:	002345	Model:	TS 400D						
Serial Number:	2883	Туре:	Balance		Cal Date:	12-Jul-05			
Remarks:	Manufacturer does not provide corner load specifications. Corner load readings are without								
pass or fail indications.									
Ambient Conditions	69 ° F		69 % RH		14.29 PSIA				
Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left			
Corner Load	grams	grams	grams	grams	grams	Result			
Reference	200.00	200.01							
Front	200.01	200.01	0.00		0.0075				
Rear	200.01	200.01	0.00		0.0075				
Left	200.01	200.01	0.00		0.0075				
Right	200.01	200.01	0.00		0.0075				
Repeatability									
1	200.00	200.01							
2	200.00	200.01							
3	200.00	200.01							
4	200.00	200.01							
5	200.00	200.01							
6	200.00	200.01							
7	200.00	200.01							
8	200.00	200.01							
9	200.00	200.01							
10	200.00	200.01							
Std Deviation		0.000		0.020		Pass			
Linearity	0.00	0.00	0.00	0.02	0.0075	Pass			
,	40.00	40.00	0.00	0.02	0.0075	Pass			
	80.00	80.00	0.00	0.02	0.0075	Pass			
	120.00	120.00	0.00	0.02	0.0075	Pass			
	160.00	160.00	0.00	0.02	0.0075	Pass			
	200.00	200.00	0.00	0.02	0.0075	Pass			
	240.00	240.00	0.00	0.02	0.0075	Pass			
	280.00	280.00	0.00	0.02	0.0075	Pass			
	320.00	320.00	0.00	0.02	0.0075	Pass			
	360.00	360.00	0.00	0.02	0.0075	Pass			
	400.00	400.00	0.00	0.02	0.0075	Pass			
			d of Report						

к .