

Behind HS 002478

TSI CERTIFICATE OF CALIBRATION AND TESTING

TSI Model 8345 TSI Serial No. 01060216

Description VELOCICALC PORTABLE AIR VELOCITY METER

Calibration Standard WIND TUNNEL CALIBRATION SYSTEM, SERIAL NO. 106

CALIBRATION VERIFICATION RESULTS

Calibration Standard	Instrument Output	Percent Difference	Error Compared to Tolerance	
			Tolerance Limit-	Tolerance Limit+
0.0 ft/min	0.0 ft/min		0	*
34.6 ft/min	34.2 ft/min	-1.2	*	*
65.2 ft/min	64.8 ft/min	-0.6	*	*
101.0 ft/min	101.2 ft/min	0.2	*	*
158.5 ft/min	157.6 ft/min	-0.6	*	*
330.2 ft/min	329.4 ft/min	-0.2	*	*
657.4 ft/min	652.4 ft/min	-0.8	*	*
1002.7 ft/min	999.8 ft/min	-0.3	*	*
1470.3 ft/min	1473.6 ft/min	0.2	*	*
2501.8 ft/min	2488.8 ft/min	-0.5	*	*
4496.7 ft/min	4476.1 ft/min	-0.5	*	*
5858.2 ft/min	5858.1 ft/min	-0.0	*	*

32.0 °F	32.0 °F
140.0 °F	140.0 °F

Tolerance Limits:
± 3% of reading
or 3 ft/min
whichever is greater

—Velocity Corrected to Std Conditions of:—
Ambient Temperature: 21.1°C
Barometric Pressure: 760.0 mmHg

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. Furthermore, all test and calibration data supplied by TSI has been obtained using standards whose accuracies are traceable to the National Institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants. Calibration procedures for this instrument comply with MIL-STD-45662A. The accuracy of the calibration facilities is greater than a ratio of 1:1 with respect to the accuracy specifications of the instrument being calibrated.

Applicable Test Report	Report Number	Date Last Verified
DC voltage	517979	09-18-00
Barometric Pressure	P-8264	05-15-00
Temperature (0°C)	254798	08-11-00
Temperature (19-35°C)	203537	08-11-00
Temperature (60°C)	216642	08-11-00
Pressure	822/260205-98	05-08-00
Pressure	822/258703-97	05-08-00
Velocity	836/264927	03-16-01
Dewpoint	257589	02-09-00

U. Swanson Final Calibration Date Jun 18, 2001

TSI Incorporated Environmental Measurements and Controls Division
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TSI CERTIFICATE OF CALIBRATION AND TESTING

TSI Model 8345 TSI Serial No. 01060220

Description VELOCICALC PORTABLE AIR VELOCITY METER

Calibration Standard WIND TUNNEL CALIBRATION SYSTEM, SERIAL NO. 115

CALIBRATION VERIFICATION RESULTS

Calibration Standard	Instrument Output	Percent Difference	Error Compared to Tolerance		
			Tolerance Limit-	0	Tolerance Limit+
0.0 ft/min	0.0 ft/min			*	
35.6 ft/min	36.0 ft/min	1.1		.*	
66.0 ft/min	65.7 ft/min	-0.5		*.	
100.4 ft/min	100.5 ft/min	0.1		*	
160.7 ft/min	160.3 ft/min	-0.2		*.	
328.0 ft/min	328.9 ft/min	0.3		.*	
650.3 ft/min	650.3 ft/min	0.0		*	
1000.0 ft/min	996.3 ft/min	-0.4		*.	
1475.3 ft/min	1480.3 ft/min	0.3		.*	
2494.4 ft/min	2489.8 ft/min	-0.2		*.	
4493.0 ft/min	4512.9 ft/min	0.4		.*	
5914.4 ft/min	5889.4 ft/min	-0.4		*.	

32.0 °F	32.1 °F	
140.0 °F	140.1 °F	

Tolerance Limits:
 ± 3% of reading
 or 3 ft/min
 whichever is greater

—Velocity Corrected to Std Conditions of:—
 Ambient Temperature: 21.1°C
 Barometric Pressure: 760.0 mmHg

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. Furthermore, all test and calibration data supplied by TSI has been obtained using standards whose accuracies are traceable to the National Institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants. Calibration procedures for this instrument comply with MIL-STD-45662A. The accuracy of the calibration facilities is greater than a ratio of 1:1 with respect to the accuracy specifications of the instrument being calibrated.

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Dewpoint	257589	02-09-00

U. Swanson Final Calibration Date Jun 18, 2001
 Calibrated by _____ Function Check _____

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