AIRFLOW PROS

INSTRUMENT CALIBRATION LIST

INSTRUMENT	MANUFACTURER	MODEL / SERIAL #	CALIBRATION DATE	CALIBRATION DUE DATE
Module Sensor	Evergreen Telemetry	MS-T&H-101 / 2300169C	3/27/2024	3/27/2025
Pressure Module	Evergreen Telemetry	S-PVF-1 / 2300389C	3/27/2024	3/27/2025
Humidity Senser	Evergreen Telemetry	PR-TH-12 / 2300120	3/27/2024	3/27/2025
Immersion Temp Probe	Evergreen Telemetry	PR-T-4-6 / 2300180	3/27/2024	3/27/2025
Temp Probe	Evergreen Telemetry	PR-T-5 / 2300241	5/31/2023	5/31/2025
Water Meter	Dywer	490W-6-HKIT / 08Q2MW	12/11/2023	12/11/2024
AC/DC Clamp-on	Amprobe	AMP-220 / 170201139	1/2/2024	1/2/2025
Tachometer	Extech	461895 / H308432	1/2/2024	1/2/2025
Anemometer	Amprobe	TMA-10A / 12040330	1/2/2024	1/2/2025
Stroboscope / Photo-Tach	Extech	461825 / H461825	9/22/2023	9/22/2024

EVERGREEN TELEMETRY

Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry	Calibration Environment		
Temperature Product	Module Sensor	Temperature	74	°F
Model	MS - T&H - 101	Rel. Humidity	31	%
SN	2300169C	Bar. Pressure	28.8	in Hg

☒ As Found ☒ As Left ☒ In Tolerance ☐ Out of Tolerance

Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range Min	Allowable Range Max	Test Instrument	
Cal Lab Probe & Test Module	Spec					
Temperature (°F)	1	73.2	-0.3	+0.3	73.2	
	2	242.2	-2.6	+2.6	242.7	
	3	-44.0	-1.6	+1.6	-44.0	

Indicates out of tolerance condition -----↑

Calibration Standard SN & Dates

Variable	System ID	Calibration Last	Calibration Due
Temperature	16320239	12-Sep-23	12-Sep-25
Temperature	21396189	5-Feb-24	5-Feb-26

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institue of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self calibrated techniques.

Calibrated By

27-Mar-2024 — Calibration Date

27-Mar-2026 — Date Due

602.574.6192 ■ info@evergreentelemetry.com ■ www.evergreentelemetry.com ■ 33 S Sycamore, Mesa, AZ 85202

EVERGREEN TELEMETRY

Certificate Of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry	Calibration Environment		
Product	Pressure / Velocity Module	Temperature	74	°F
Model	S-PVF-1	Rel. Humidity	31	%
SN	2300389C	Bar. Pressure	28.8	in Hg

☒ As Found ☒ As Left ☒ In Tolerance ☐ Out of Tolerance

Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range Min	Allowable Range Max	Test Instrument	
Barometric Pressure (in Hg)	Spec		-2% - 0.1	+ 2% + 0.1		
	1	20.0			20.0	
	2	28.9			29.0	
	3	33.0			33.1	
Differental Pressure (in wc)	Spec		-2%-.001	+2%+.001		
	1	10.00			9.971	
	2	2.000			1.992	
	3	0.5000			0.4965	
	4	0.0500			0.0495	
	5	-10.00			-10.016	
	6	-0.0500			-0.0500	
			-3% - 7	+3% + 7		
Via Pitot >>	7	0.00066 / 103			102	
Velocity Pressure >> (inW.C. / FPM) -3% -7	8	0.0159 / 505			504	

Indicates out of tolerance condition ----------↑

NIST-Traceable Lab Calibration Standards

Variable	System ID	Calibration Last	Calibration Due
Pressure	7481227	8-Mar-23	8-Mar-25
Pressure	7568470	8-Mar-23	8-Mar-25
Pressure	7871917	12-Sep-23	12-Sep-25
Pressure	7870754	12-Sep-23	12-Sep-25
Pressure	2205000006	13-Sep-23	13-Sep-25
Pressure	1208000080	13-Feb-23	13-Feb-25
Pressure	41001F6C	27-Apr-23	27-Apr-25
Velocity	2100191A	24-Feb-23	24-Feb-25
Velocity	2100190A	1-May-23	1-May-25

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institue of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self calibrated techniques.

Calibrated By

27-Mar-2024 Calibration Date

27-Mar-2026 Date Due

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EVERGREEN TELEMETRY

Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry	Calibration Environment		
Product	Humidity Sensor	Temperature	74	°F
Model	PR-TH-12	Rel. Humidity	31	%
SN	2300120	Bar. Pressure	28.8	in Hg

☐ As Found ☒ As Left ☒ In Tolerance ☐ Out of Tolerance

Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range Min	Allowable Range Max	Test Instrument	
Temperature (°F)	Spec					
	1	40.1	-1.0	1.0	39.9	
	2	75.2	-1.0	1.0	75.1	
	3	85.9	-1.0	1.0	85.8	
	4	127.5	-2.0	2.0	127.6	
Barometric Pressure (in Hg)	Spec		-2% - 0.1	+ 2% + 0.1		
	1	20.0			19.9	
	2	28.9			28.9	
	3	33.0			33.0	
Humidity %RH 10 to 90%	Spec		-3	3		
	1	9.5			10.0	
	2	25.2			26.4	
	3	58.4			56.3	
	4	88.7			88.0	

Indicates out of tolerance condition ------↑

Calibration Standard

Variable	System ID	Calibration Last	Calibration Due
Temperature	16320239	12-Sep-23	12-Sep-25
Temperature	21396189	5-Feb-24	5-Feb-26
Pressure	2205000006	13-Sep-23	13-Sep-25
Pressure	1208000080	13-Feb-23	13-Feb-25
Humidity	20558772	12-Sep-23	12-Sep-24
Humidity	20052171	5-Feb-24	5-Feb-25

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Temperature accuracy (dry bulb) varies across the operating range:

Temperature over 32-100F +/- 1.0 F
Temperature over 100-158F +/- 2.0 F

Calibrated By

27-Mar-2024 Calibration Date

27-Mar-2025 Date Due

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EVERGREEN TELEMETRY

Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry			Calibration Environment		
Temperature Product		Module	Probe	Temperature	74	°F
Model			PR-T-4-6	Rel. Humidity	31	%
SN			2300180	Bar. Pressure	28.8	in Hg

☒ As Found ☒ As Left ☒ In Tolerance ☐ Out of Tolerance

Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range Min	Allowable Range Max	Test Instrument	
Cal Lab Module & Test Probe	Spec					
Temperature (°F)	1	73.3	-0.3	+0.3	73.3	
	2	242.3	-2.6	+2.6	242.1	
	3	-43.9	-1.6	+1.6	-43.8	

Indicates out of tolerance condition -----↑

Calibration Standard SN & Dates

Variable	System ID	Calibration Last	Calibration Due
Temperature	16320239	12-Sep-23	12-Sep-25
Temperature	21396189	5-Feb-24	5-Feb-26

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institue of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self calibrated techniques.

Calibrated By

27-Mar-2024 Calibration Date

27-Mar-2026 Date Due

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EVERGREEN TELEMETRY

Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry			Calibration Environment		
Temperature Product		Module	Probe	Temperature	75	°F
Model			PR-T-5	Rel. Humidity	24	%
SN			2300241	Bar. Pressure	28.5	in Hg

☐ As Found ☒ As Left ☒ In Tolerance ☐ Out of Tolerance

Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range Min	Allowable Range Max	Test Instrument	
Cal Lab Module & Test Probe	Spec					
Temperature (°F)	1	78.4	-0.3	+0.3	78.3	
	2	242.3	-2.6	+2.6	243.2	
	3	-43.1	-1.6	+1.6	-43.0	

Indicates out of tolerance condition ----↑

Calibration Standard SN & Dates

Variable	System ID	Calibration Last	Calibration Due
Temperature	21396189	5-Oct-21	5-Oct-23

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institue of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self calibrated techniques.

Calibrated By

31-May-2023 — Calibration Date

31-May-2025 — Date Due

602.574.6192 ■ info@evergreentelemetry.com ■ www.evergreentelemetry.com ■ 33 S Sycamore, Mesa, AZ 85202

CERTIFICATE OF NIST CALIBRATION

Dwyer Instruments, 102 Highway 212, Michigan City, IN 46360 USA T: +1 800.872.9141 +1 219.879.8000 F: +1 219.872.9057

ID/Serial#:	08Q2MW	Date: 12/11/2023	Date Due: 12/11/2024	By: 3968

Customer Information		Device Under Test (DUT)	
AIRFLOW PROS 1001 EASTWIN DRIVE SUITE 203 WESTERVILLE, OH 43081	ID/Serial#: Model: Description: MFR: Accuracy: Red Sensor: Blue Sensor:	08Q2MW 490W-6-HKIT Hydronic Differential Pressure Manometer Dwyer Instruments 2% Of Reading DWY-H200-08Q2MW Device ID DWY-L200-08Q2MW Device ID	
Address Where Calibration Was Performed		**Calibration Standard Information**	
Dwyer Instruments Inc 3999 Hupp Rd Kingsbury, IN 46345	Instrument Reference: Status:		As Received ☐ / After Repair ☐ / New ☑
Reference Standards Used	Test Range:	0 - 200 PSI	
Module / ID# / Last Cal / Due Date MW-MFC015 22DWYPSL-1296 3/17/23 3/17/24 MW-PM293 22DWYPSL-1183 12/14/22 12/14/23 MW-PM294 22DWYPSL-1245 1/3/23 1/3/24	Notes:	Certificate No: 23DWY09-1350 Sales order No: S932879 Purchase order No: CREDITCARD	
Master Gauge Accuracy: 0.05%			

As Found/As Left Calibration Data - All Data on PSI

RESULT	Target Test Point	Reference Standard Reading	Error Percentage
PASS	-0.015	-0.030	0.0074
PASS	120.115	119.940	0.0874
PASS	199.850	199.940	-0.0450
PASS	0.052	-0.010	0.0312
PASS	99.088	99.340	-0.1260
PASS	49.231	49.440	-0.1046
PASS	40.105	39.990	0.0574
PASS	80.143	79.960	0.0913
PASS	160.022	159.940	0.0408
PASS	149.028	149.220	-0.0962

This document certifies that only the device under test (DUT) identified above has been calibrated against a reference standard having an accuracy as listed.

Calibrated By: MA Job Function: Technician

Hoover Instrument Service, Inc.
401 North Home Road
Mansfield, Ohio 44906-2398
(419) 529-3226 Fax(419) 529-9360

To: **Airflow Pros**
1001 Eastwind Drive - Suite 203
Westerville, OH 43081

Test Report # 63612
P.O.#
Date: 1/2/24

Condition as Received ☒ Returned ☒ In Tolerance ☒ Out of Tolerance ☐ Data on Next Sheet ☐

Make: **Amprobe**

Description: **ac/dc clamp-on**

Model # **AMP-220**

Mfg Serial # **170201139**

Customer #

RH % 36 Temperature: 21 °C

Accuracy:
acv = +/- 1% +/- 5d
aca = +/- 1.8% +/- 5d
dcv = +/- 1% +/- 5d
dca = +/- 2% +/- 5d
res = +/- 1% +/- 5d

Accuracy of Standard:
acv = +/- 0.5% dcv = +/- 0.03%
aca = +/- 0.5% dca = +/- 0.3%
res.= +/- 0.1%

Hoover	Customer	Hoover	Customer	Hoover	Customer
DCV		**ACV**		**Resistance**	
50.00	49.9	50.00	49.9	100.0	100.0Ω
100.0	99.8	100.0	99.8	1.000 K	1.000K
150.0	149.8	150.0	149.8	10.000 K	9.99K
250.0	249.7	250.0	249.7		
500.0	499.6	500.0	499.6		
DCA		**ACA**			
25.0	25.00	25.0	25.13		
50.0	50.15	50.0	50.32		
75.0	75.5	75.0	75.5		
100.0	100.7	100.0	100.5		
200.0	201.9	200.0	202.0		
300.0	303.8	300.0	303.2		
400.0	405.5	400.0	405.4		
500.0	508.0	500.0	507.0		

Services Performed:
☐ Cleaned ☐ Movement Repaired ☐ Pointer Repaired ☐ Reset Pointer
☐ Zero Adjusted ☐ Adjust Calibration ☐ Repaired ☐ Batteries

☐ Calibration Location On Site

Test Instruments Used:

			Due Date:
Amprobe	#BDM40-UA	s/n 07110052	6/24
Shallcross	#830	s/n 21107	4/24

Notes:

Calibration Procedure: **5075-33** Revision: **0**

Calibration Cycle: **1 year**

Tested By: Tom Quality Control: Pat

Hoover Instrument Service, Inc.
401 North Home Road
Mansfield, Ohio 44906-2398
(419) 529-3226 Fax(419) 529-9360

To: **Airflow Pros**
1001 Eastwind Drive - Suite 203
Westerville, Ohio 43081

Test Report # 6368
P.O.#
Date: 1/2/24

Condition as Received ☒ Returned ☒ In Tolerance ☒ Out of Tolerance ☐ Data on Next Sheet ☐

Make: **Extech**
Description: **tachometer**
Model # **461895**
Mfg Serial # **H308432**
Customer #
RH % 36 Temperature: 21 °C
Accuracy: +/- 0.05% +/- 1d
Accuracy of Standard: +/- 0.0008%

Hoover	Customer	Hoover	Customer	Hoover	Customer
		RPM			
		600.0	599.9		
		900.0	899.9		
		1800.0	1800		
		3000.0	3000		
		3600.0	3600		
		6000.0	6000		
		7200.0	7200		

Services Performed:
☐ Cleaned ☐ Movement Repaired ☐ Pointer Repaired ☐ Reset Pointer
☐ Zero Adjusted ☐ Adjust Calibration ☐ Repaired ☒ Batteries

☐ Calibration Location On Site

Test Instruments Used:
Altek #40A s/n 195587

Due Date: 8/24

Notes:

Calibration Procedure: **5023** Revision: **4**

Calibration Cycle: **1 year**

Tested By:

Quality Control:

Hoover Instrument Service, Inc.
401 North Home Road
Mansfield, Ohio 44906-2398
(419) 529-3226 Fax(419) 529-9360

To: **Airflow Pros**
1001 Eastwind Drive - Suite 203
Westerville, OH 43081

Test Report # 63615
P.O.#
Date: 1/2/24

Condition as Received ☐ Returned ☒ In Tolerance ☒ Out of Tolerance ☐ Data on Next Sheet ☐

Make: **Amprobe**
Description: **anemometer**
Model # **TMA-10A**
Mfg Serial # **12040330**
Customer #
RH % 36 Temperature: 21 °C

Accuracy:
Temp = +/- 1.5 °F
+/- 2% of F.S.

Accuracy of Standard:
+/- 5 ft/min
Temp = +/- 0.5 °F

Hoover	Customer	Hoover	Customer	Hoover	Customer
		feet/minute		**temperature fahrenheit**	
		260	265	69.5	69.4
		510	522		
		740	750		
		1010	1018		
		1260	1265		
		1500	1510		

Services Performed:
☐ Cleaned ☐ Movement Repaired ☐ Pointer Repaired ☐ Reset Pointer
☐ Zero Adjusted ☐ Adjust Calibration ☒ Repaired ☒ Batteries

☐ Calibration Location On Site

Test Instruments Used:

Tegam	#855	s/n T-113227
TSI	#8330	s/n 95030100

Due Date:
12/24
6/24

Notes:
Replaced Cable

Calibration Procedure: **5075-23** Revision: **0**

Calibration Cycle: **1 year**

Tested By:

Quality Control:

Hoover Instrument Service, Inc.
401 North Home Road
Mansfield, Ohio 44906-2398
(419) 529-3226 Fax(419) 529-9360

To: **Airflow Pros**
1001 Eastwind Drive - Suite 203
Westerville, Ohio 43081

Test Report # 63213
P.O.#
Date: 9/22/23

Condition as Received ☒ Returned ☒ In Tolerance ☒ Out of Tolerance ☐ Data on Next Sheet ☐

Make: **Extech**

Description: **stroboscope / photo-tach**

Model # **461825**

Mfg Serial # **H437768**

Customer #

RH % 54 Temperature: 23 °C

Accuracy:
+/- 0.1 RPM +/- 2d

Accuracy of Standard:
strobe = +/- 0.05%
photo = +/- 0.0008%

Hoover	Customer	Hoover	Customer	Hoover	Customer
		RPM		**RPM**	
		Photo-Tach		**Stroboscope**	
		300.0	300.0	300.0	299.9
		600.0	600.0	600.0	600.0
		900.0	900.0	900.0	899.9
		1800	1800	1800	1800
		3600	3600	3600	3600
		7200	7200	7200	7200

Services Performed:
☐ Cleaned ☐ Movement Repaired ☐ Pointer Repaired ☐ Reset Pointer
☐ Zero Adjusted ☐ Adjust Calibration ☐ Repaired ☐ Batteries

☐ Calibration Location On Site

Test Instruments Used:			Due Date:	Notes:
Altek	#40A	s/n 195587	8/24	
Sperry	#TACH-1	s/n L301594	4/24	

Calibration Procedure: **5023-2** Revision: **1**

Calibration Cycle: **1 year**

Tested By: Quality Control: