



INSTRUMENT CALIBRATION LIST

INSTRUMENT	MANUFACTURER	MODEL / SERIAL #	CALIBRATION DATE	CALIBRATION DUE DATE
Stroboscope / Photo-Tach	Extech	461825 / H437764	9/10/2024	9/10/2025
Immersion Temp Probe	Evergreen Telemetry	PR-T-4-6 / 2100306	9/6/2024	9/6/2025
Water Meter	Dwyer	A-490W-6 / 08Q2MT	9/10/2024	9/10/2025
Water Meter	Dwyer	490W-6-KHIT / 08Q2MM	9/10/2024	9/10/2025
Temp Probe	Evergreen Telemetry	PR-T-5 / 2100256	9/6/2024	9/6/2025
Pressure Module	Evergreen Telemetry	S-PVF-1 / 2100456C	9/6/2024	9/6/2025
Humidity Sensor	Evergreen Telemetry	PR-TH-1 / 2100141	9/6/2024	9/6/2025
Module Sensor	Evergreen Telemetry	MS-T&H-101 / 2100133B	9/6/2024	9/6/2025
AC/DC Clamp-on	Amprobe	AMP-220 / 170201135	9/10/2024	9/10/2025

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 # 65231
 P.O.# _____
 Date: 9/10/24

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

	Hoover	Customer	Hoover	Customer	Hoover	Customer
			RPM		RPM	
Make:	Extech		Photo-Tach		Stroboscope	
Description:	stroboscope / photo-tach					
Model #	461825		300.0	<u>300.0</u>	300.0	<u>300.0</u>
Mfg Serial #	H437764		600.0	<u>599.9</u>	600.0	<u>600.0</u>
Customer #			900.0	<u>900.0</u>	900.0	<u>899.9</u>
RH %	<u>51</u>	Temperature: <u>23 °C</u>	1800	<u>1800</u>	1800	<u>1800</u>
Accuracy:	+/- 0.1 RPM	+/- 2d	3600	<u>3599</u>	3600	<u>3600</u>
			7200	<u>7200</u>	7200	<u>7200</u>
Accuracy of Standard:	strobe = +/- 0.05%					
	photo = +/- 0.0008%					

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
Sperry #TACH-1 s/n L301594

Due Date:

8/25
4/25

Notes:

Calibration Procedure: **5023-2**

Revision: **1**

Calibration Cycle: **1 year**

Tested By: 

Quality Control: 



Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry			Calibration Environment		
Temperature Product	Module	Probe	Temperature	74	°F	
Model		PR-T-4-6	Rel. Humidity	42	%	
SN		2100306	Bar. Pressure	28.7	in Hg	

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument	
			Min	Max		
Cal Lab Module & Test Probe	Spec					
Temperature (°F)	1	75.0	-0.3	+0.3	75.1	
	2	242.1	-2.6	+2.6	242.7	
	3	-43.4	-1.6	+1.6	-43.0	

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 Institute of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self calibrated techniques.

 Calibrated By

6-Sep-2024 6-Sep-2026
 Calibration Date Date Due

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 # 65230
P.O.# _____
Date: 9/10/24

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

	Hoover	Customer	Hoover	Customer	Hoover	Customer
Make: <u>Dwyer</u>				PSI		
Description: <u>hydraulic pressure manometer</u>			40.00	<u>40.08</u>		
Model # <u>A-490W-6</u>			80.00	<u>80.10</u>		
Mfg Serial # <u>08Q2MT</u>			120.00	<u>120.07</u>		
Customer #			160.00	<u>159.95</u>		
RH % <u>50</u> Temperature: <u>23 °C</u>			200.00	<u>199.78</u>		
Accuracy: <u>+/- 2% +/- 1 psi</u>						
Accuracy of Standard: <u>+/- 0.1%</u>						

Services Performed:

- | | | | |
|---|---|---|---|
| <input type="checkbox"/> Cleaned | <input type="checkbox"/> Movement Repaired | <input type="checkbox"/> Pointer Repaired | <input type="checkbox"/> Reset Pointer |
| <input type="checkbox"/> Zero Adjusted | <input type="checkbox"/> Adjust Calibration | <input type="checkbox"/> Repaired | <input checked="" type="checkbox"/> Batteries |
| <input type="checkbox"/> Calibration Location On Site | | | |

Test Instruments Used:

Crystal #300psiXP2i s/n 821664

Due Date:

6/25

Notes:

Calibration Procedure: **5040-51**

Revision: **0**

Calibration Cycle: **1 year**

Tested By:



Quality Control:



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 401 North Home Road
 Mansfield, Ohio 44906-2398
 (419) 529-3226 Fax(419) 529-9360

To: **Airflow Pros**
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Westerville, OH 43081

Test Report # 65229
 P.O.# _____
 Date: 9/10/24

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

	Hoover	Customer	Hoover	Customer	Hoover	Customer
Make:	Dwyer			PSI		
Description:	hydronic pressure manometer		40.00	40.08		
Model #	A-490W-6		80.00	80.12		
Mfg Serial #	08Q2MM		120.00	120.06		
Customer #			160.00	160.00		
RH %	50	Temperature: 23 °C	200.00	199.80		
Accuracy:	+/- 2% +/- 1 psi					
Accuracy of Standard:	+/- 0.1%					

Services Performed:

- Cleaned
- Movement Repaired
- Pointer Repaired
- Reset Pointer
- Zero Adjusted
- Adjust Calibration
- Repaired
- Batteries
- Calibration Location On Site

Test Instruments Used:

Crystal #300psiXP2i s/n 821664

Due Date:

6/25

Notes:

Calibration Procedure: 5040-51

Revision: 0

Calibration Cycle: 1 year

Tested By: *Don Ph...*

Quality Control: *[Signature]*



Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry			Calibration Environment		
Temperature Product	Module	Probe	Temperature	74	°F	
Model		PR-T-5	Rel. Humidity	42	%	
SN		2100256	Bar. Pressure	28.7	in Hg	

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument	
			Min	Max		
Cal Lab Module & Test Probe	Spec					
Temperature (°F)	1	75.1	-0.3	+0.3	75.0	
	2	242.1	-2.6	+2.6	242.0	
	3	-43.2	-1.6	+1.6	-43.2	

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

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 Calibrated By

6-Sep-2024 6-Sep-2026
 Calibration Date Date Due



Certificate Of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry	Calibration Environment		
Product	Pressure / Velocity Module	Temperature	74	°F
Model	S-PVF-1	Rel. Humidity	42	%
SN	2100456C	Bar. Pressure	28.7	in Hg

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument
			Min	Max	
Barometric Pressure (in Hg)	Spec		-2% - 0.1	+ 2% + 0.1	
	1	20.0			20.0
	2	28.7			28.8
	3	33.0			33.1
Differential Pressure (in wc)	Spec		-2%-.001	+2%+.001	
	1	10.00			9.979
	2	2.000			1.992
	3	0.5000			0.4996
	4	0.0500			0.0503
	5	-10.00			-10.021
Via Pitot >> Velocity Pressure >> (inW.C. / FPM) -3% -7			-3% - 7	+3% + 7	
	7	0.00073 / 108			107
	8	0.0156 / 500			500

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	19-Jun-24	19-Jun-26
Velocity	2100191A	24-Feb-23	24-Feb-25
Velocity	2100190A	1-May-23	1-May-25

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 Calibrated By

6-Sep-2024 6-Sep-2026
 Calibration Date Date Due



Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry	Calibration Environment		
Product	Humidity Sensor	Temperature	74	°F
Model	PR-TH-1	Rel. Humidity	42	%
SN	2100141	Bar. Pressure	28.7	in Hg

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument
			Min	Max	
Temperature (°F)	Spec				
	1	39.6	-1.0	1.0	39.9
	2	75.0	-1.0	1.0	75.2
	3	85.7	-1.0	1.0	85.8
	4	127.5	-2.0	2.0	127.8
Barometric Pressure (in Hg)	Spec		-2% - 0.1	+ 2% + 0.1	
	1	20.0			20.1
	2	28.6			28.7
	3	33.0			33.0
Humidity %RH 10 to 90%	Spec		-3	3	
	1	10.2			10.3
	2	24.5			26.2
	3	57.9			57.2
	4	89.9			88.7

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

Julie Seem

Calibrated By

6-Sep-2024 6-Sep-2025
 Calibration Date Date Due



Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry	Calibration Environment		
Temperature Product	Module Sensor	Temperature	74	°F
Model	MS - T&H - 101	Rel. Humidity	42	%
SN	2100133B	Bar. Pressure	28.7	in Hg

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument	
			Min	Max		
Cal Lab Probe & Test Module	Spec					
Temperature (°F)	1	75.0	-0.3	+0.3	75.1	
	2	242.1	-2.6	+2.6	242.7	
	3	-43.4	-1.6	+1.6	-43.0	

Indicates out of tolerance condition ----↑

Calibration Standard SN & Dates

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 Calibrated By

6-Sep-2024 6-Sep-2026

 Calibration Date Date Due

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To: **Airflow Pros**
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Test Report # 65227
 P.O.# _____
 Date: 9/10/24

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

Make:	Amprobe	Hoover		Customer		Hoover		Customer	
		DCV	ACV	Resistance	DCV	ACV	Resistance		
Description:	ac/dc clamp-on	50.00	49.9	50.00	49.9	100.0	100.0	100.0	100.0
Model #	AMP-220	100.0	99.8	100.0	99.8	1.000 K	0.999K	1.000 K	0.999K
Mfg Serial #	170201135	150.0	149.8	150.0	149.8	10.000 K	10.00k	10.000 K	10.00k
Customer #		250.0	249.7	250.0	249.7				
RH %	J/	500.0	499.4	500.0	499.4				
Temperature:	23 °C								
Accuracy:									
acv = +/- 1%	+/- 5d	25.0	25.18	25.0	25.25				
aca = +/- 1.8%	+/- 5d	50.0	50.48	50.0	50.72				
dcv = +/- 1%	+/- 5d	75.0	75.7	75.0	76.0				
dca = +/- 2%	+/- 5d	100.0	101.1	100.0	101.5				
res = +/- 1%	+/- 5d	200.0	202.7	200.0	203.0				
Accuracy of Standard:		300.0	305.0	300.0	304.1				
acv = +/- 0.5%	dcv = +/- 0.03%	400.0	407.2	400.0	406.3				
aca = +/- 0.5%	dca = +/- 0.3%	500.0	509.0	500.0	507.5				
	res. = +/- 0.1%								

Services Performed:

- Cleaned
- Movement Repaired
- Pointer Repaired
- Reset Pointer
- Zero Adjusted
- Adjust Calibration
- Repaired
- Batteries
- Calibration Location On Site

Test Instruments Used:

Amprobe #BDM40-UA s/n 07110052
 Shallcross #830 s/n 21107

Due Date:

12/24
 4/25

Notes:

Calibration Procedure: **5075-33**

Revision: **0**

Calibration Cycle: **1 year**

Tested By: 

Quality Control: 