

INSTRUMENT CALIBRATION LIST

INSTRUMENT	MANUFACTURER	MODEL / SERIAL #	CALIBRATION DATE	CALIBRATION DUE DATE
AC/DC Clamp- on	Amprobe	AMP-220 / 200501511	3/11/2024	3/11/2025
Pressure and Flow Gauge	retrotec	DM32 20A / 412969	3/14/2023	3/14/2025
Module Sensor	Evergreen Telemetry	MS-T&H-101 / 2100109B	2/16/2024	2/16/2025
Stroboscope / Photo-Tach	Extech	461825 / H437765	3/11/2024	3/11/2025
Water Meter	Dwyer	490W-6-HKIT / 08Q2MX	12/11/2023	12/11/2024
Humidity Sensor	Evergreen Telemetry	PR-TH-1 / 2100110	2/16/2024	2/16/2024
Anemometer	Amprobe	TMA-10A / 061022-1	3/12/2024	3/12/2025
Tachometer	Extech	461895 / H396140	3/11/2024	3/11/2025
Temp Probe	Evergreen Telemetry	PR-T-5 / 2100210	2/16/2024	2/16/2025
Pressure Module	Evergreen Telemetry	S-PVF-1 / 2100328C	2/16/2024	2/16/2025
Immersion Temp Probe	Evergreen Telemetry	PR-T-4-6 / 2100239	2/16/2024	2/16/2025

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

Test Report #	64180
P.O.#	·····
Date: 3	/11/24

Conditi	on as Received 🔀 Returned	X	In Tolerance 🔀	Out of Toleran	nce	Data on Next Shee	et 🗌
Make:	Amprobe	Hoover <u></u>	Customer DCV	Hoover	Customer ACV	Hoover Resis	Customer stance
Description: Model # Mfg Serial # Customer # RH % 36 Accuracy:	ac/dc clamp-on AMP-220 200501511 Temperature: $\frac{2}{}$ o C acv = +/- 1% +/- 5d aca = +/- 1.8% +/- 5d dcv = +/- 1% +/- 5d dca = +/- 2% +/- 5d	50.00 100.0 150.0 250.0 500.0 25.0 50.0 75.0 100.0 200.0	79.9 24.7.8 49.7.2 74.7.7 199.9	50.00 100.0 150.0 250.0 500.0 500.0 25.0 50.0 75.0 100.0 200.0	49.9 99.8 149.8 245.9 499.9 149.95 74.8 100.0	100.00 K 1.000 K 10.000 K 10.0	FOOR O. A. S.
Clear	res = +/- 1% +/- 5d andard: .5% dcv = +/- 0.03% .5% dca = +/- 0.3% res.= +/- 0.1%	300.0 400.0 500.0	30h y 4017 5025 Pointer Repaired Repaired	300.0 400.0 500.0	200.4 302.7 402.5 SOJ.5 Reset Pointer Batteries Calibration Locat	inon On Site	
Amp	truments Used: robe #BDM40-UA s/n 0711 cross #830 s/n 2110	***************************************	Due Date: 6 /24 9 / 24	0.000000000000000000000000000000000000			00000000000000000000000000000000000000
Calibration Production Cycle Tested By:			Revision: 0	: XW	14h_		

Certificate of Gauge Calibration

Issued by: Retrotec

Calibration Date: 2023-03-14



1060 E Pole Rd. Everson, WA, USA 98247

T: +1 (360) 738-9835

E: calibration@retrotec.com W: www.retrotec.com

Results: As Left

AC-1943

This calibration laboratory has been assessed by the ANSI-ASQ National Accreditation Board and meets the requirements of international standard ISO/IEC 17025.

Certificate Number: 412969 013923

Instrument:

Description:

Pressure and Flow Gauge

Manufacturer:

Retrotec

Model Number:

DM32 20A

Serial Number:

412969

Calibrated by: Tina Lukyanets

Issue Date: 2023-03-14

Environmental conditions:

Temperature:

68°F ±10°F

Relative Humidity: 50% ±30%

Mains Voltage:

120V ±10V

Mains Frequency: 60Hz ±1Hz

Comments:

Results recorded as received. No adjustment performed.

This calibration applies only to the unit listed on this certificate.

Calibration Information:

The Device was calibrated against laboratory standards whose values are traceable to recognized national standards. The uncertainty represents an expanded uncertainty using a coverage factor of k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits without taking uncertainty into account. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 requirements.

Calibration Procedure:

CP-35-01

This Calibration Certificate shall not be reproduced except in full, without written approval from Retrotec.



Airflow Pros

Manufacturer	ufacturer Evergreen Telemetry		Calibration Environment				
Temperature Product	Module Sensor	Temperature	74	°F			
Model	MS - T&H - 101	Rel. Humidity	28	%			
SN	2100109B	Bar. Pressure	28.8	in Hg			

As Found

M As Left

In Tolerance

■ Out of Tolerance

Calibration Data

Measurement	Test Cal All	Test	Cal Allowable	Allowable Range		Test
Variable	Point	Standard	Min	Max	Instrument	
Cal Lab Probe & Test Module	Spec					
	1	78.6	-0.3	+0.3	78.8	
Temperature (°F)	2	242.4	-2.6	+2.6	243.0	
	3	-44.1	-1.6	+1.6	-43.9	

Indicates out of tolerance condition -----↑

Calibration Standard SN & Dates

Variable	System ID	Calibration Last	Calibration Due
Temperature	16320239	12-Sep-23	12-Sep-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 raţio type of self calibrated techniques.

Calibrated By

16-Feb-2024

16-Feb-2026

Calibration Date

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

Test Report # 64/87
P.O.#
Date: 3/11/24

Make: Extech	Hoover	Customer	Hoover	Customer RPM	Hoover R	Customer PM
		CONCRETATION AND THE STATE OF T	Pho	oto-Tach		oscope
Description: stroboscope / photo-tach			300.0	300,0	300.0	300,0
Model # 461825	10000000000000000000000000000000000000		600.0	600.0	600.0	600.0
Mfg Serial # H437765	00000000000000000000000000000000000000		900.0	855.9	900.0	900.0
Customer #	www.commonwealer.com/		1800	1800	1800	1800
RH % J6 Temperature: 2/ oc	Mario and an analysis and an a	· ewhitekishin in Ardan markina	3600	3600	3600	3600
Accuracy: +/- 0.1 RPM +/- 2d			7200	7200	7200	7199
				***************************************		, con the contract of the cont
Accuracy of Standard: strobe = +/- 0.05% photo = +/- 0.0008% Services Performed: Cleaned Movement Repair Zero Adjusted Adjust Calibration	edet in the control of the control o	Pointer Repaired	via. *salarenitri mini tiri	Reset Pointer Batteries Calibration Location	vonaceudamina de la composition della compositio	entropy and the control of the contr
Test Instruments Used:		Due Date:	L	Notes:	TOR Site	
Altek #40A s/n 195587 Sperry #TACH-1 s/n L301594		8/29 				
> ************************************						



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#:	08Q2M	X	Date:	12/11/2023	Date Due:	12/11/2024	By: 3968	
Customer Information				Г	Device Under Test (DUT)			
				ID/Serial#:		08Q2MX		
			01	Model:		490W-6-HK	IT	
	AIRFLOW PRO	S		Description:	Hydronic	Differential Pres	sure Manometer	
1001 EA	ASTWIN DRIVE S	UITE 203	3	MFR:		Dwyer Instrum	ients	
WE	STERVILLE, OH	43081						
				Accuracy:		2% Of Reading		
				Red Sensor:	or: DWY-H200-08Q2MX Device			
				Blue Sensor:	nsor: DWY-L200-08Q2MX Devi			
Address	Where Calibration W	as Perform	ed		Calibi	ration Standard	Information	
	Dwyer Instruments 1	nc		Instrument				
	3999 Hupp Rd			Reference:				
	Kingsbury, IN 4634	5		Status:	As Received	After Repair	New	
							V	
	Reference Standards	Used		Test Range:	0	- 200	PSI	
Module	ID#	Last Cal	Due Date	Notes:				
MW-MFC015	22DWYPSL-1296	3/17/23	3/17/24					
MW-PM293	22DWYPSL-1183	12/14/22	12/14/23	ı	Certificate N	-1351		
MW-PM294	22DWYPSL-1245	1/3/23	1/3/24		Sales order No: S932879			
Master Gau	ige Accuracy:	0.0	5%		Purchase ord	ler No: CRED	ITCARD	

	As Found/As Left Calib	ration Data - All Data on PSI	
RESULT	Target Test Point	Reference Standard Reading	Error Percentage
PASS	-0.473	-0.470	-0.0016
PASS	119.539	119.470	0.0346
PASS	199.235	199.460	-0.1123
PASS	1.247	-0.020	0.6337
PASS	99.912	99.590	0.1609
PASS	50.369	49.640	0.3643
PASS	39.597	39.540	0.0285
PASS	79.601	79.490	0.0557
PASS	159.424	159.470	-0.0229
PASS	149.537	149.510	0.0135

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

	1	1	•			
Calibrated By:	ML			Job Function:	Technician	



Airflow Pros

Manufacturer	Evergreen Telemetry	Calibration	Environme	nt
Product	Humidity Sensor	Temperature	74	°F
Model	PR-TH-1	Rel. Humidity	28	%
SN	2100110	Bar. Pressure	28.8	in Hg

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

Calibration Data

Measurement	Test	Cal	Allowable Range		Test
Variable	Point	Standard	Min	Max	Instrumen
	Spec				
	1	39.2	-1.0	1.0	39.5
Temperature (°F)	2	78.4	-1.0	1.0	78.5
	3	86.6	-1.0	1.0	86.5
	4	128.8	-2.0	2.0	128.8
Barometric	Spec		-2% - 0.1	+ 2% + 0.1	
Pressure (in Hg)	1	20.0			20.0
, -,	2	28.7			28.8
	3	33.0			33.0
	Spec		-3	3	
Humidity %RH	1	6.3			6.5
10 to 90%	2	24.7			25.9
	3	62.1			61.8
	4	86.4			85.1

Indicates out of tolerance condition ------

Calibration Standard

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

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.

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

16-Feb-2024

16-Feb-2025

Calibration Date

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

Test Report #	64181
P.O.#	
Date:	3/12/24

Make:	Amprobe	Hoover	Customer	Hoover feet/I	Customer minute	Hoover tempe i fahre i	
Description:	anemometer	America de America de Companyo	entirella.	335	340		69,-
Model#	TMA-10A	2007-00-00-00-00-00-00-00-00-00-00-00-00-		530	542	6.952	
Mfg Serial#	061022-1	100 100 100 100 100 100 100 100 100 100	agango www.gangagagagagagagagagagagagagagagagagaga	750	769		
Customer#		***************************************		1000	1018		***************************************
RH % 38	Temperature: 2/ °C	an and an arthur of the state o	engrish amanggi sammani primini mengris	1250	1272	which is a laborated distance pointed	
Accuracy:	Temp = +/-1.5 °F +/-2% of F.S.						
		W.W. (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990)					***************************************
Accuracy of Sta	endard: +/- 5 ft/min Temp = +/- 0.5 0 F						
Clear	s <u>Performed:</u> nedMovement F AdjustedAdjust Calib		Pointer Repaired	=	Reset Pointer Batteries	MATERIAL STATE STA	
					Calibration Locatio	n On Site	
Test Ins	truments Used:		<u>Due Date:</u>	Not	es:		
Tega	m #855 s/n T-11	13227	12/24	wheelers			10000000
TSI	#8330 s/n 9500	30100	6/29	110 (100 (aggarante a santa a mangaranta a garante a sagarante a sagarante a sagarante a sagarante a sagarante a sagaran O santa a santa a santa a santa a sagarante a sagarante a sagarante a sagarante a sagarante a sagarante a sagar	novelene
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Calibration Proc	<u>5075-23</u>		Revision: 0	100-40000000000000000000000000000000000			
Calibration Prod	<u>5075-23</u>		Revision: 0				

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

Test Report #	64188
P.O.#	tis mountain franciscon processoriamente.
Date: 🝏	111/24

ake:	Extech	Hoover	Customer	Hoover <u>R</u>	Customer PM	Hoover	
escription:	tachometer	a de la companya de l	56/00/41/10/00/40/00/40/00/40/40/40/40/40/40/40/40	600.0	5999		Angel Angel January
odel#	461895			900.0	859.9	***************************************	**************************************
g Serial#	H396140	Adaption of the State of the St		1800.0	1799		2000 AC
ustomer#				3000.0	3000		200200000000000000000000000000000000000
1% <i>36</i>	Temperature: 2/ oc		And A service agreement as experimental and	3600.0	3600		drawn a 6000
ccuracy:	300000000000000000000000000000000000000		and the second s	6000.0	6000		
+/-	- 0.05% +/- 1d			7200.0			en estat
erandersterste hit entstelle er er i 1940-1941 v. Medit i terripassis datum hagi teknik (1940-1940)	a ann agus ann an agus agus agus agus agus agus agus agus		- And the control of		AND CONTRACTOR SHAPE SHAPE SHAPE SALES AND	CONTROL CONTRO	V · · · · · · · · · · · · · · · · ·
curacy of Sta	andard: +/- 0.0008%	***************************************					12002100000
de 1887 (1881 - 1883) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884)	damaidhnadhliodhliochaidhna marthadanarrannanainnadhliochliochaidh an tha iorrain	massimus mininteredistrico a succión succión	••••	and places but the personner channel along a channel	+630+cccoddallc+ccmanchalaracanses	Marie and a control of the control o	444 VVV 444
Clean	s Performed: ned Movement Re Adjusted Adjust Calibra		Pointer Repaired	=	Reset Pointer Batteries		**** *****
Clean	ned Movement Re					ion On Site	ner VVV avla
Clean	Adjusted Movement Re Adjusted Adjust Calibra truments Used:	ation			Batteries	ion On Site:	



Airflow pros

Manufacturer	Evergreen Telemetry		Calibration	Environme	nt
Temperature Product	Module	Probe	Temperature	74	o _F
Model		PR-T-5	Rel. Humidity	28	%
SN		2100210	Bar. Pressure	28.8	in Hg

As Found As Left In Tolerance

Calibration Data

	Cal	Allowable Range		Test	
Point	Standard	Min	Max	Instrument	
Spec					
1	78.5	-0.3	+0.3	78.5	
2	242.4	-2.6	+2.6	242.3	
3	-43.8	-1.6	+1.6	-43.6	
	Spec 1 2	Spec 78.5 2 242.4	Spec -0.3 1 78.5 -0.3 2 242.4 -2.6	Spec 1 78.5 -0.3 +0.3 2 242.4 -2.6 +2.6	

Indicates out of tolerance condition -----↑

Calibration Standard SN & Dates

Variable	System ID	Calibration Last	Calibration Due
Temperature	16320239	12-Sep-23	12-Sep-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

16-Feb-2026 16-Feb-2024

Calibration Date **Date Due**

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	28	%	
SN	2100328C	Bar. Pressure	28.8	in Hg	

As Found

As Left

In Tolerance

Out of Tolerance

Calibration Data

Measurement	Test	Cal	Allowal	ole Range	Test
Variable	Point	Standard	Min	Max	Instrument
	Spec		-2% - 0.1	+ 2% + 0.1	
Barometric	1	20.0			20.1
Pressure (in Hg)	2	28.8			28.9
	3	33.0			33.1
	Spec		-2%001	+2%+.001	
	1	10.00			9.982
Differental	2	2.000			1.996
Pressure	3	0.5000			0.5002
(in wc)	4	0.0500			0.0501
	5	-10.00			-10.031
	6	-0.0500			-0.0501
			-3% - 7	+3% + 7	
Via Pitot >>	7	0.00071 / 107			108
Velocity Pressure >> (inW.C. / FPM) -3% -7	8	0.0158 / 503			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

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Calibrated By

16-Feb-2024

16-Feb-2026

Calibration Date



Airflow pros

Manufacturer Evergreen Telemetry		Calibration Environment			
Temperature Product	Module	Probe	Temperature	74	٥F
Model		PR-T-4-6	Rel. Humidity	28	%
SN		2100239	Bar. Pressure	28.8	in H

☑ As Found ☑ As Left ☑ In Tolerance ☐

Calibration Data

Measurement	Test	Cal	Allowable Range		Test	
Variable	Point	Standard	Min	Max	Instrument	
Cal Lab Module & Test Probe	Spec					
	1	78.6	-0.3	+0.3	78.8	
Temperature (°F)	2	242.4	-2.6	+2.6	243.0	
	3	-44.1	-1.6	+1.6	-43.9	

Indicates out of tolerance condition -----↑

Calibration Standard SN & Dates

Variable	System ID	Calibration Last	Calibration Due
Temperature	16320239	12-Sep-23	12-Sep-25

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16-Feb-2024

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Calibration Date