

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 # 64712
 P.O.# _____
 Date: 6/12/24

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 | <u>40.10</u> | | |
| Model # A-490W-6 | | | 80.00 | <u>80.15</u> | | |
| Mfg Serial # 08Q2MS | | | 120.00 | <u>120.14</u> | | |
| Customer # _____ | | | 160.00 | <u>160.05</u> | | |
| RH % <u>51</u> Temperature: <u>23</u> °C | | | 200.00 | <u>199.89</u> | | |
| Accuracy: <u>+/- 2% +/- 1 psi</u> | | | | | | |
| Accuracy of Standard: <u>+/- 0.1%</u> | | | | | | |

Services Performed:

- Cleaned
- Zero Adjusted
- Movement Repaired
- Adjust Calibration
- Pointer Repaired
- Repaired
- Reset Pointer
- 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: *[Signature]*

Quality Control: *[Signature]*

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To: **Airflow Pros**
 1001 Eastwind Drive
 Westerville, Ohio 43081
 Attn: **Ron Chiona**

Test Report # 64709
 P.O.# _____
 Date: 6/12/24

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

| | Hoover | Customer | Hoover | Customer | Hoover | Customer |
|---|--------|----------|--------------------|-------------|--------------------|-------------|
| Make: Amprobe | | | feet/minute | | temperature | |
| Description: anemometer | | | <u>255</u> | <u>266</u> | fahrenheit | |
| Model # TMA-10A | | | <u>490</u> | <u>497</u> | <u>72.5</u> | <u>73.1</u> |
| Mfg Serial # 23090034 | | | <u>750</u> | <u>757</u> | | |
| Customer # _____ | | | <u>1000</u> | <u>1010</u> | | |
| RH % <u>51</u> Temperature: <u>23</u> °C | | | <u>1510</u> | <u>1525</u> | | |
| Accuracy: Temp = +/- 1.5 °F | | | | | | |
| +/- 2% of F.S. | | | | | | |
| Accuracy of Standard: +/- 5 ft/min | | | | | | |
| Temp = +/- 0.5 °F | | | | | | |

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
6/25

Notes:

Calibration Procedure: 5075-23

Revision: 0

Calibration Cycle: 1 year

Tested By: *Ron Chiona*

Quality Control: *John White*

Hoover Instrument Service, Inc.
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To: **Airflow Pros**
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 Attn: **Ron Chiona**

Test Report # 64713
 P.O.# _____
 Date: 6-6-24

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

| Make: | Hoover | Customer | RPM | | RPM | |
|--|--------|----------|------------|-------------|--------|----------|
| | | | Photo-Tach | Stroboscope | Hoover | Customer |
| Extech | | | | | | |
| Description: stroboscope / photo-tach | | | 300.0 | 300.0 | 300.0 | 300.0 |
| Model # 461825 | | | 600.0 | 600.0 | 600.0 | 600.0 |
| Mfg Serial # H437766 | | | 900.0 | 900.1 | 900.0 | 900.0 |
| Customer # _____ | | | 1800 | 1800 | 1800 | 1800 |
| RH % <u>54</u> Temperature: <u>23</u> °C | | | 3600 | 3599 | 3600 | 3600 |
| Accuracy: <u>+/- 0.1 RPM +/- 2d</u> | | | 7200 | 7200 | 7200 | 7200 |
| 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:

8/24
4/25

Notes:

Calibration Procedure: 5023-2

Revision: 1

Calibration Cycle: 1 year

Tested By: Jeannie Smith

Quality Control: [Signature]

Hoover Instrument Service, Inc.
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To: **Airflow Pros**
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Westerville, Ohio 43081
 Attn: **Ron Chiona**

Test Report # 64710
 P.O.# _____
 Date: 6-6-24

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

| Make: | Amprobe | Hoover | Customer | Hoover | Customer | Hoover | Customer |
|-----------------------|-----------------------|--------|----------|--------|----------|------------|----------|
| | | DCV | | ACV | | Resistance | |
| Description: | ac/dc clamp-on | 50.00 | 49.9 | 50.00 | 50.0 | 100.0 | 100.1 |
| | | 100.0 | 99.9 | 100.0 | 99.9 | 1.000 K | 1.000 kΩ |
| Model # | AMP-220 | 150.0 | 149.9 | 150.0 | 150.0 | 10.000 K | 9.99 kΩ |
| | | 250.0 | 249.8 | 250.0 | 250.0 | | |
| Mfg Serial # | 060524-1 | 500.0 | 499.9 | 500.0 | 500.2 | | |
| Customer # | | | | | | | |
| | | DCA | | ACA | | | |
| RH % | 55 | 25.0 | 25.08 | 25.0 | 25.0 | | |
| Temperature: | 23 °C | 50.0 | 50.01 | 50.0 | 50.1 | | |
| Accuracy: | acv = +/- 1% +/- 5d | 75.0 | 75.0 | 75.0 | 75.1 | | |
| | aca = +/- 1.8% +/- 5d | 100.0 | 100.1 | 100.0 | 100.3 | | |
| | dcv = +/- 1% +/- 5d | 200.0 | 200.1 | 200.0 | 199.6 | | |
| | dca = +/- 2% +/- 5d | 300.0 | 299.1 | 300.0 | 299.5 | | |
| | res = +/- 1% +/- 5d | 400.0 | 398.8 | 400.0 | 399.8 | | |
| Accuracy of Standard: | | 500.0 | 498.5 | 500.0 | 500.1 | | |
| | acv = +/- 0.5% | | | | | | |
| | aca = +/- 0.5% | | | | | | |
| | 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:

6/24
 4/24

Notes:

Calibration Procedure: 5075-33

Revision: 0

Calibration Cycle: 1 year

Tested By: Jeanne Smith

Quality Control: J. N. N.



Certificate of Calibration

Airflow Pros

| | | | | | |
|---------------------|---------------------|---------|-------------------------|------|-------|
| Manufacturer | Evergreen Telemetry | | Calibration Environment | | |
| Temperature Product | Module | Probe | Temperature | 74 | °F |
| Model | | PR-T-5 | Rel. Humidity | 27 | % |
| SN | | 2100320 | Bar. Pressure | 28.6 | 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 Temperature (°F) | Spec | | | | | |
| | 1 | 72.2 | -0.3 | +0.3 | 72.3 | |
| | 2 | 242.4 | -2.6 | +2.6 | 242.6 | |
| | 3 | -43.3 | -1.6 | +1.6 | -43.8 | |
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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

| | |
|------------------|-------------|
| 11-Jun-2024 | 11-Jun-2026 |
| Calibration Date | Date Due |



Certificate of Calibration

Airflow Pros

| | | | | | |
|---------------------|---------------------|----------|-------------------------|------|-------|
| Manufacturer | Evergreen Telemetry | | Calibration Environment | | |
| Temperature Product | Module | Probe | Temperature | 74 | °F |
| Model | | PR-T-4-6 | Rel. Humidity | 27 | % |
| SN | | 2100296 | Bar. Pressure | 28.6 | in Hg |

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

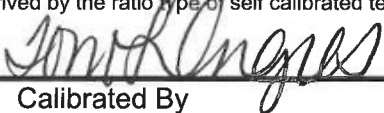
| Measurement Variable | Test Point | Cal Standard | Allowable Range | | Test Instrument | |
|-----------------------------|------------|--------------|-----------------|------|-----------------|--|
| | | | Min | Max | | |
| Cal Lab Module & Test Probe | Spec | | | | | |
| Temperature (°F) | 1 | 72.2 | -0.3 | +0.3 | 72.2 | |
| | 2 | 241.9 | -2.6 | +2.6 | 243.0 | |
| | 3 | -43.3 | -1.6 | +1.6 | -43.7 | |
| | | | | | | |
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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 or self calibrated techniques.



 Calibrated By

11-Jun-2024 11-Jun-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 | 27 | % |
| SN | 2100134 | Bar. Pressure | 28.6 | 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 | 39.9 | -1.0 | 1.0 | 40.0 |
| | 2 | 75.2 | -1.0 | 1.0 | 75.1 |
| | 3 | 85.7 | -1.0 | 1.0 | 85.8 |
| | 4 | 128.3 | -2.0 | 2.0 | 127.9 |
| Barometric Pressure (in Hg) | Spec | | -2% - 0.1 | + 2% + 0.1 | |
| | 1 | 20.0 | | | 20.0 |
| | 2 | 28.6 | | | 28.6 |
| | 3 | 33.0 | | | 33.0 |
| Humidity %RH 10 to 90% | Spec | | -3 | 3 | |
| | 1 | 9.6 | | | 10.1 |
| | 2 | 24.3 | | | 24.8 |
| | 3 | 61.5 | | | 59.0 |
| | 4 | 90.1 | | | 87.9 |

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

11-Jun-2024 11-Jun-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 | 27 | % |
| SN | 2100145C | Bar. Pressure | 28.6 | 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 | 72.2 | -0.3 | +0.3 | 72.2 |
| | 2 | 241.9 | -2.6 | +2.6 | 243.0 |
| | 3 | -43.3 | -1.6 | +1.6 | -43.7 |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |

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.

Tommy Cruz

 Calibrated By

11-Jun-2024 11-Jun-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 | 27 | % |
| SN | 2100449C | Bar. Pressure | 28.6 | in Hg |

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

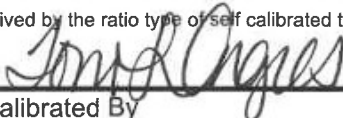
| Measurement Variable | Test Point | Cal Standard | Allowable Range | | Test Instrument | |
|--|------------|---------------|-----------------|------------|-----------------|--|
| | | | Min | Max | | |
| Barometric Pressure (in Hg) | Spec | | -2% - 0.1 | + 2% + 0.1 | | |
| | 1 | 20.0 | | | 20.0 | |
| | 2 | 28.6 | | | 28.6 | |
| | 3 | 33.0 | | | 33.1 | |
| Differential Pressure (in wc) | Spec | | -2%-.001 | +2%+.001 | | |
| | 1 | 10.00 | | | 9.976 | |
| | 2 | 2.000 | | | 1.996 | |
| | 3 | 0.5000 | | | 0.4999 | |
| | 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 | | | 109 | |
| | 8 | 0.0160 / 507 | | | 509 | |

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



 Calibrated By

11-Jun-2024 11-Jun-2026

 Calibration Date Date Due