

CERTIFICATE OF CALIBRATION

| | | | |
|----------------------------|---|----------------------------|-------------------------|
| CUSTOMER: | CLEAR STAK PUTNAM CT | CALIBRATION DATE: | 11/05/19 |
| PO NUMBER: | 101119CAL | CALIBRATION DUE: | 11/05/20 |
| INST. MANUFACTURER: | NUTECH | PROCEDURE: | NAVAIR 17-20MG-02 |
| INST. DESCRIPTION: | AIR SAMPLER/ STACK SAMPLER | CALIBRATION FLUID: | AIR @ 14.7 PSIA 70 F |
| MODEL NUMBER: | 2010A GRASEBY ANDERSEN (2010.00) | STANDARD(S) USED: | A4, A24 DUE 06-2020 |
| SERIAL NUMBER: | 80994 | NIST TRACE # 'S: | 1453296155, 1520423238 |
| RATED UNCERTAINTY: | +/- 1 % RD. | AMBIENT CONDITIONS: | 758 mm HGA 45 % RH 73 F |
| UNCERTAINTY GIVEN: | TOTAL measurement uncertainty: +/- .190 % RD. K=2 | CERTIFICATE FILE #: | 471997.19 |
| NOTES: | AS RECEIVED MISSING SCREWS FROM METER'S TOP/ AS LEFT, METER FIXED TO CASE & WITHIN SPECS. REFERENCE CONDITIONS ARE: 760 mm HGA 70 F | | |

| TEST POINT NUMBER | UUT | | CORRECTION FACTOR | UUT | |
|-------------------|----------------|---------------------|-------------------|--------------------|-------------------------|
| | INDICATED SCFH | DM.STD. ACTUAL SCFH | | INDICATED INCH H2O | DM.STD. ACTUAL INCH H2O |
| | PD.METER | PD.METER | | PRESS | PRESS |
| 1 | 5.0116 | 5.02 | 1.0017 | 1 | 1.00 |
| 2 | 19.9617 | 20.04 | 1.0039 | 4 | 4.00 |
| 3 | 34.9499 | 35.03 | 1.0023 | 6 | 6.00 |
| 4 | 49.8365 | 49.98 | 1.0029 | 8 | 8.00 |
| 5 | 64.7720 | 64.99 | 1.0034 | 10 | 10.00 |
| 6 | 79.7952 | 80.05 | 1.0032 | GAUGE | GAUGE |
| 7 | 94.7438 | 94.97 | 1.0024 | "HG VAC. | "HG VAC. |
| 8 | 109.6701 | 109.98 | 1.0028 | 0-30 | 0-30 |
| | | AVERAGE | 1.00282 | TEMPERATURE | TEMPERATURE |
| | | | | F DEG. | F DEG. |
| | | | | 71 | 71.03 |

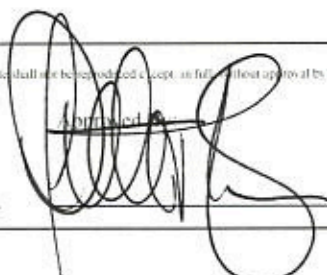
All instruments used in the performance of the shown calibration have traceability to the National Institute of Standards and Technology (NIST). The uncertainty ratio between the calibration standards (DM.STD.) used and the unit under test (UUT) is a minimum of 4:1, unless otherwise noted. Calibration has been performed per the shown procedure number, in accordance with ISO 10012:2003, ISO 17025:2005, ANSI/NCSSL-Z-540.3, and/or MIL-STD-45662A. Test methods: API2530-92 & ASME MFC-3M-1989.

Dick Munns Company • 11133 Winners Circle • Los Alamitos, CA 90720
Phone (714) 827-1215

This Calibration Certificate shall not be reproduced, except as fully approved by DICK MUNNS COMPANY. The data shown applies only to the instrument being calibrated and under the stated conditions of calibration.

Date:

11/5/2019



Calibration Technician:

AT