



Certificate No.: 475-9851
Procedure No.: MFR

Control No.: 394811
Page 1 of 2

UNIT UNDER TEST

SUBMITTED BY

Manufacturer: HART SCIENTIFIC
Model No.: 5627-9
Serial No.: 739882
Cust. Ref. No.:
Description: PRT PROBE
Date Rec'd: 12/3/2018
Condition Rec'd: GOOD

Customer: K&S TECHNICAL SERVICES, INC
941 NEW LONDON ROAD
NEWARK, DE 19711
P.O. #: 10338
Precal: IN SPEC Final: IN SPEC

CALIBRATION CERTIFICATE

All calibrations are performed by qualified personnel using instrumentation, procedures and methods which guarantee specifications claimed are reliable. When specified, all calibrations are performed in accordance with current ISO/IEC 17025, ANSI/NCSL Z-540-1, MIL-STD-45662A, and ENV/Pro-Lab Quality Manual - Rev 5. Standards used are traceable to The National Institute of Standards and Technology (NIST). Expanded uncertainties are calculated using methods described in the Guide to the Expression of Uncertainty of Measurement (GUM) utilizing a coverage factor of K=2 (95% confidence) and kept on file at Pro-Lab. At a minimum, standards are selected with an uncertainty of 25% or better, where possible. This certificate and/or data shall not be reproduced except in full, without the written permission of Pro-Lab Management.

Standards Used

| Asset # | Description | Certificate Number | Date Due |
|---------|---------------------------------------|--------------------|------------|
| 01081 | Platinum Resistance Thermometer | 52-VEN-2272 | 11/27/2019 |
| 1274 | PRECISION DIGITAL THERMOMETER READOUT | 52-VEN-12831 | 1/18/2019 |
| 01839 | Platinum Resistance Thermometer | 52-VEN-14043 | 3/16/2019 |

Temperature: 25.3 C
Humidity: 18.7% RH

Approved By: John Mcenroe
ProLab Manager
E-Signed 19-Dec-2018 3:29 PM

Date Tested: 19-Dec-2018
Date Due: 19-Dec-2019

Calibrated By: Jennifer Freed
Lab Technician
E-Signed 19-Dec-2018 3:15 PM

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CALIBRATION DATA

Hart Scientific user guide for model #5627-9

Note: Calibration results may drift from documented values prior to calibration due date attributable to various factors. Results obtained apply to the UUT only and are reflective of conditions at the time of this test.

Results are obtained by setting the Unit Under Test (UUT) to the nominal value and recording the error from the standard (As Found/Final). To determine UUT error subtract the As Found/Final Result from the UUT result.

| STANDARD °C | AS FOUND °C | AS FOUND OHMS | AS FOUND ERROR | TOLERANCE ± |
|-------------|-------------|---------------|----------------|-------------|
| -195.606 | -195.595 | 20.3653 | 0.011 | 0.050°C |
| -37.969 | -37.945 | 85.0166 | 0.024 | 0.050°C |
| -0.010 | -0.013 | 99.9737 | -0.003 | 0.050°C |
| 100.010 | 99.980 | 138.5101 | -0.030 | 0.050°C |
| 400.366 | 400.387 | 247.2728 | 0.021 | 0.055°C |

| STANDARD °C | FINAL °C | FINAL OHMS | FINAL ERROR | TOLERANCE ± |
|-------------|----------|------------|-------------|-------------|
| -195.606 | -195.595 | 20.3653 | 0.011 | 0.050°C |
| -37.969 | -37.945 | 85.0166 | 0.024 | 0.050°C |
| -0.010 | -0.013 | 99.9737 | -0.003 | 0.050°C |
| 100.010 | 99.980 | 138.5101 | -0.030 | 0.050°C |
| 400.366 | 400.387 | 247.2728 | 0.021 | 0.055°C |