



# CERTIFICATE OF NIST TRACEABLE CALIBRATION

Calibration Certificate No: 95590

## Customer Information

Customer: ILRT Inc.  
Address : 237 Phinney Road  
Hannibal, NY 13074



Customer PO #: PO220104A R0

## Calibration Procedure Information

Procedure ID: GTP Graftel-Temp

Revision #: 11

Revision Date: 4/15/2019

## Calibration Standards Information

| <u>Graftel ID</u> | <u>Manufacturer</u>   | <u>Model #</u> | <u>Description</u> | <u>CAL Due</u> |
|-------------------|-----------------------|----------------|--------------------|----------------|
| 10017             | Hart Scientific/Burns | 1502A/12005    | PRT, Temperature   | 10/29/2022     |
| 10129             | Hart Scientific       | 1502A/5628     | PRT, Temperature   | 5/8/2022       |
| 60030             | Paroscientific        | 760-100A       | Pressure, 100 psia | 5/20/2022      |
| T1830459          | Vaisala               | HMW95D         | RH/Temp. Logger    | 6/17/2022      |
| 1A01JMGKP36       | Graftel               | N/A            | Digital Barometer  | 6/16/2022      |

## Sensor Information

Manufacturer: Graftel

Description: Temp. Sensor

Method Used: Temp. Bath/PRT

Model #: 9202

Rated Accuracy:  $\pm 1$  Difference

Accuracy Specified By: Graftel

Instrument ID#: II-0039

Range: 50 to 150 °F

Condition: Functional

Serial #: 0392010-16

Comments: Calibration Date: 01/31/2022

Calibration Due: 01/31/2023

*This calibration is Nuclear Safety Related. 10CFR50 Appendix B and 10CFR Part 21 apply.*

*The calibrations within the certificate/report are traceable through NIST or another National Metrology Institute to the International System of Units (SI). The reported calibration uncertainty has a confidence level of 95% ( $k=2$ ). A calibration uncertainty ratio of 4:1 was maintained unless required uncertainty is supported by analysis. Graftel Quality Assurance System complies with applicable requirements of ISO/IEC-17025-2017, ANSI/NCSL Z540-I-1994 and ISO 9001. All results contained within this certificate relate only to item(s) calibrated. This certificate shall not be reproduced except in full and with the written consent of Graftel. Acceptance Criteria per Simple Acceptance Rule: Measurement Uncertainty is not applied to the measured value when in/out of tolerance statement is made.*

Performed By:

Philip Davis  
Calibration Technician

Date: 1/31/2022

Approved By:

Scott Pickett  
Vice President, Lab Services

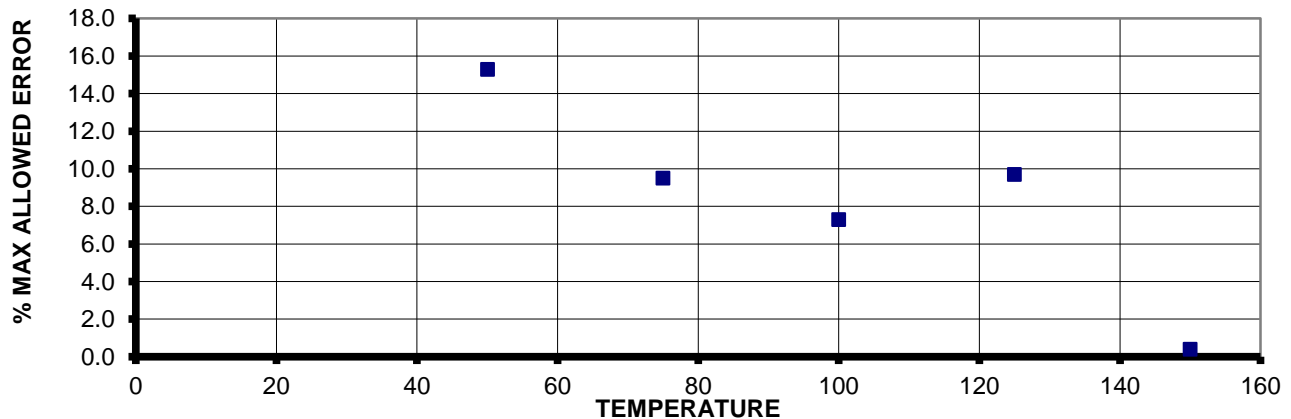
Date: 1/31/2022

**ATTACHMENT TO CALIBRATION CERTIFICATE 95590**  
**AS FOUND / AS LEFT DATA**

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| Reading From Standard, °F | Lower Limit of Meter Reading, °F | Measured Reading From Meter, °F | Upper Limit of Meter Reading, °F | Error, °F | Measurement Uncertainty (k=2) °F | CMC (k=2) °F | STATUS |
|---------------------------|----------------------------------|---------------------------------|----------------------------------|-----------|----------------------------------|--------------|--------|
| 50.027                    | 49.027                           | 50.18                           | 51.027                           | 0.153     | 0.05                             | 0.05         | Pass   |
| 74.985                    | 73.985                           | 75.08                           | 75.985                           | 0.095     | 0.05                             | 0.05         | Pass   |
| 99.997                    | 98.997                           | 100.07                          | 100.997                          | 0.073     | 0.05                             | 0.05         | Pass   |
| 124.993                   | 123.993                          | 125.09                          | 125.993                          | 0.097     | 0.05                             | 0.05         | Pass   |
| 149.996                   | 148.996                          | 150.00                          | 150.996                          | 0.004     | 0.05                             | 0.05         | Pass   |

**ERROR CHART**



**Instrument Specifications**

|                 |      |            |
|-----------------|------|------------|
| Lower Range:    | 50   | °F         |
| Upper Range:    | 150  | °F         |
| Resolution:     | 0.01 | °F         |
| Rated Accuracy: | 1    | Difference |

**Laboratory Ambient Conditions**

|              |       |      |
|--------------|-------|------|
| Pressure:    | 14.41 | psia |
| Humidity:    | 15.51 | %RH  |
| Temperature: | 70.62 | °F   |



FLOW - TEMPERATURE - HUMIDITY - PRESSURE - DESIGN - CONSULTING - ENGINEERING

**NIST Traceable Calibration Data Sheet**

WWW.GRAFTEL.COM

95 Chancellor Dr., Roselle, IL 60172

Phone: 847-364-2600

Fax: 847-364-3899