

# ILLIANA INSTRUMENTATION

1831 Govert Drive Schererville, IN 46375 (219)227-8788 [illianaservice.com](http://illianaservice.com)

## CERTIFICATE OF CALIBRATION

Illiana Instrumentation  
1831 Govert Drive  
Schererville, IN 46375-

Date received: 09/23/18  
Calibration date: 09/23/18  
Recalibration due: 12/23/18

Purchase order:  
Location of calibration: Lab

|                                                                                                                                                                                            |                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Item number: 1388<br>Tag number:<br>Manufacturer: Fluke<br>Model num: 53 II<br>Description: 1388 Thermometer<br>Serial number: 93930043<br>Accuracy: Fluke Manual/AMS 2750E<br>Item notes: | Item location: Mobile<br>Temp: 73.0° F.    Humidity: 45    Sensitivity: OK<br>Condition as found: In tolerance<br>Condition as left: In tolerance<br>Intentional offset as found: 0.0000<br>Intentional offset as left: 0.0000<br>Limitations: None |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

This certifies that the above equipment was calibrated using appropriate Illiana Instrumentation technical procedures. At planned intervals, Illiana Instrumentation standards are calibrated by comparison to or measurement against standards which are traceable to the SI units through the NIST or other recognized national measurement institutes or international standard bodies. The results in this report relate only to the item(s) calibrated. If so indicated above, detailed calibration results are attached to this certificate. These results are part of this certificate and this certificate shall not be reproduced except in full, without the written approval of Illiana Instrumentation. Any number of factors not under the control of the calibration laboratory may cause the calibration of the above item(s) to drift before the recommended recalibration date. Supporting documentation relative to traceability and technical procedures used is on file and is available for review upon request and approval of our quality assurance manager. The above uncertainties represent an expanded uncertainty expressed at approximately 95% confidence level using a coverage factor of k=2.

Tech: Paul D Grolla Date: 09/23/18 Approved by: Laura Grolla Date: 09/23/18  
 Paul D Grolla - ISA Certified Controls Systems Tech.      Laura Grolla - Deputy Quality Manager

| Cal Point | Init Read | Final Read | Upper Tol | Lower Tol | Eng Units | Cal point description | Pass? |
|-----------|-----------|------------|-----------|-----------|-----------|-----------------------|-------|
| 32.0000   | 32.0000   | 32.0000    | 32.5000   | 31.5000   | Deg F.    | Type K                | Yes   |

Standard(s): 1546 Fluke 525B

Adjustments:

Problems:

Uncertainty: 1.9000 Deg F.

Procedure: WI-508

| Cal Point | Init Read | Final Read | Upper Tol | Lower Tol | Eng Units | Cal point description | Pass? |
|-----------|-----------|------------|-----------|-----------|-----------|-----------------------|-------|
| 73.4000   | 73.3000   | 73.3000    | 73.9000   | 72.9000   | Deg F.    | Type K                | Yes   |

Standard(s): 1546 Fluke 525B

Adjustments:

Problems:

Uncertainty: 1.9000 Deg F.

Procedure: WI-508

| Cal Point | Init Read | Final Read | Upper Tol | Lower Tol | Eng Units | Cal point description | Pass? |
|-----------|-----------|------------|-----------|-----------|-----------|-----------------------|-------|
| 990.0000  | 989.7000  | 989.7000   | 990.8000  | 989.2000  | Deg C.    | Type K                | Yes   |

Standard(s): 1546 Fluke 525B

Adjustments:

Problems:

Uncertainty: 1.9000 Deg C.

Procedure: WI-508

| Cal Point | Init Read | Final Read | Upper Tol | Lower Tol | Eng Units | Cal point description | Pass? |
|-----------|-----------|------------|-----------|-----------|-----------|-----------------------|-------|
| -310.0000 | -309.8000 | -309.8000  | -309.0000 | -311.0000 | Deg F.    | Type K                | Yes   |

Standard(s): 1546 Fluke 525B

Adjustments:

Problems:

Uncertainty: 1.9000 Deg F.

Procedure: WI-508



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| Cal Point | Init Read | Final Read | Upper Tol | Lower Tol | Eng Units | Cal point description | Pass? |
|-----------|-----------|------------|-----------|-----------|-----------|-----------------------|-------|
| 1000.0000 | 999.7000  | 999.7000   | 1001.0000 | 999.0000  | Deg F.    | Type K                | Yes   |

Standard(s): 1546 Fluke 525B

Adjustments:

Problems:

Uncertainty: 1.9000 Deg F.

Procedure: WI-508

| Cal Point | Init Read | Final Read | Upper Tol | Lower Tol | Eng Units | Cal point description | Pass? |
|-----------|-----------|------------|-----------|-----------|-----------|-----------------------|-------|
| 2192.0000 | 2192.0000 | 2192.0000  | 2194.0000 | 2190.0000 | Deg F.    | Type K                | Yes   |

Standard(s): 1546 Fluke 525B

Adjustments:

Problems:

Uncertainty: 1.9000 Deg F.

Procedure: WI-508

| Cal Point | Init Read | Final Read | Upper Tol | Lower Tol | Eng Units | Cal point description | Pass? |
|-----------|-----------|------------|-----------|-----------|-----------|-----------------------|-------|
| 100.0000  | 99.6000   | 99.6000    | 101.0000  | 99.0000   | Deg F.    | Type N                | Yes   |

Standard(s): 1546 Fluke 525B

Adjustments:

Problems:

Uncertainty: 1.9000 Deg F.

Procedure: WI-508

| Cal Point | Init Read | Final Read | Upper Tol | Lower Tol | Eng Units | Cal point description | Pass? |
|-----------|-----------|------------|-----------|-----------|-----------|-----------------------|-------|
| 450.0000  | 449.4000  | 449.4000   | 451.0000  | 449.0000  | Deg F.    | Type N                | Yes   |

Standard(s): 1546 Fluke 525B

Adjustments:

Problems:

Uncertainty: 1.9000 Deg F.

Procedure: WI-508

| Cal Point | Init Read | Final Read | Upper Tol | Lower Tol | Eng Units | Cal point description | Pass? |
|-----------|-----------|------------|-----------|-----------|-----------|-----------------------|-------|
| 780.0000  | 779.4000  | 779.4000   | 781.0000  | 779.0000  | Deg F.    | Type N                | Yes   |

Standard(s): 1546 Fluke 525B

Adjustments:

Problems:

Uncertainty: 1.9000 Deg F.

Procedure: WI-508

| Cal Point | Init Read | Final Read | Upper Tol | Lower Tol | Eng Units | Cal point description | Pass? |
|-----------|-----------|------------|-----------|-----------|-----------|-----------------------|-------|
| 1110.0000 | 1109.0000 | 1109.0000  | 1111.0000 | 1109.0000 | Deg F.    | Type N                | Yes   |

Standard(s): 1546 Fluke 525B

Adjustments:

Problems:

Uncertainty: 1.9000 Deg F.

Procedure: WI-508

| Cal Point | Init Read | Final Read | Upper Tol | Lower Tol | Eng Units | Cal point description | Pass? |
|-----------|-----------|------------|-----------|-----------|-----------|-----------------------|-------|
| 1440.0000 | 1439.0000 | 1439.0000  | 1441.0000 | 1439.0000 | Deg F.    | Type N                | Yes   |

Standard(s): 1546 Fluke 525B

Adjustments:

Problems:

Uncertainty: 1.9000 Deg F.

Procedure: WI-508

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|-----------|-----------|------------|-----------|-----------|-----------|-----------------------|-------|
| 1800.0000 | 1799.0000 | 1799.0000  | 1801.0000 | 1799.0000 | Deg F.    | Type N                | Yes   |

Standard(s): 1546 Fluke 525B

Adjustments:

Problems:

Uncertainty: 1.9000 Deg F.

Procedure: WI-508

Customer approval: \_\_\_\_\_ Date: \_\_\_\_\_

Total pages for Certificate 999999-01388-5432: 3