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Calibration  
Certificate No. 1750.01

Calibration complies with ISO/IEC  
17025, ANSI/NCSL Z540-1, and 9001



Cert. No.: 4227-6169966

**Traceable® Certificate of Calibration for Refrigerator/Freezer Thermometer**

Manufactured for and distributed by: Fisher Scientific, 300 Industry Drive, Pittsburgh, PA 15275-1001

**Instrument Identification:**

Model Numbers: 06-664-23, FB50268, 245C9 S/N: 140570596 Manufacturer: Control Company

**Standards/Equipment:**

| Description                         | Serial Number | Due Date | NIST Traceable Reference |
|-------------------------------------|---------------|----------|--------------------------|
| Temperature Calibration Bath TC-179 | A45240        |          |                          |
| Thermistor Module                   | A17118        | 2/24/15  | 1000351744               |
| Temperature Probe                   | 128           | 3/12/15  | 15-CJ73J-4-1             |
| Temperature Calibration Bath TC-231 | A79341        |          |                          |
| Thermistor Module                   | A17118        | 2/24/15  | 1000351744               |
| Temperature Probe                   | 3039          | 3/12/15  | 15-CJ73J-1-1             |

**Certificate Information:**

Technician: 68 Procedure: CAL-03 Cal Date: 8/26/14 Due Date: 8/26/16  
Test Conditions: 24.0°C 43.0 %RH 1015 mBar

**Calibration Data: (New Instrument)**

| Unit(s)  | Nominal | As Found | In Tol | Nominal | As Left | In Tol | Min  | Max  | ±U    | TUR  |
|----------|---------|----------|--------|---------|---------|--------|------|------|-------|------|
| °C Probe |         | N.A.     |        | 0.000   | -0.2    | Y      | -0.5 | 0.5  | 0.10  | >4:1 |
| °C Probe |         | N.A.     |        | 50.000  | 49.7    | Y      | 49.5 | 50.5 | 0.058 | >4:1 |

**This Instrument was calibrated using Instruments Traceable to National Institute of Standards and Technology.**

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading; As Left=Instrument's Reading; In Tol=In Tolerance; Min/Max=Acceptance Range; ±U=Expanded Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2; Min = As Left Nominal(Rounded) - Tolerance; Max = As Left Nominal(Rounded) + Tolerance; Date=MM/DD/YY

This certificate indicates calibration for external sensor only.

*Nicol Rodriguez*  
Nicol Rodriguez, Quality Manager

*Aaron Judice*  
Aaron Judice, Technical Manager

**Maintaining Accuracy:**

In our opinion once calibrated your Refrigerator/Freezer Thermometer should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Refrigerator/Freezer Thermometers change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

**Recalibration:**

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

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Control Company is an ISO 17025:2005 Calibration Laboratory Accredited by (A2LA) American Association for Laboratory Accreditation, Certificate No. 1750.01.  
Control Company is ISO 9001:2008 Quality Certified by (DNV) Det Norske Veritas, Certificate No. CERT-01805-2006-AQ-HOU-RvA.  
International Laboratory Accreditation Cooperation (ILAC) - Multilateral Recognition Arrangement (MRA).