



# CERTIFICADO DE CALIBRACIÓN / *CALIBRATION CERTIFICATE*



Certificado No.:

63336

Registrador de Temperatura y Humedad

Fecha de Calibración:

2025-11-15

HWA-SUNG-THERMO

Tabla 1.0: Lecturas de la TEMPERATURA en el área de trabajo (°C)

| Tiempo<br>(hh:mm:ss) | Temperatura Patrón<br>(°C) | Temperatura<br>Calibrando (°C) | Error (°C) |
|----------------------|----------------------------|--------------------------------|------------|
| 11:10:00 AM          | 15.8                       | 13.7                           | -2.10      |
| 11:11:00 AM          | 15.4                       | 13.8                           | -1.60      |
| 11:12:00 AM          | 15.3                       | 13.3                           | -2.00      |
| 11:13:00 AM          | 15.3                       | 13.1                           | -2.20      |
| 11:14:00 AM          | 15.2                       | 13.8                           | -1.40      |
| 11:15:00 AM          | 15.1                       | 13.9                           | -1.20      |
| 11:16:00 AM          | 14.9                       | 14.3                           | -0.60      |
| 11:17:00 AM          | 14.8                       | 14.2                           | -0.60      |
| 11:18:00 AM          | 14.7                       | 14.5                           | -0.20      |
| 11:19:00 AM          | 14.6                       | 14.8                           | 0.20       |
| 11:20:00 AM          | 14.3                       | 14.9                           | 0.60       |
| 11:21:00 AM          | 13.9                       | 15.0                           | 1.10       |
| 11:22:00 AM          | 13.8                       | 15.0                           | 1.20       |
| 11:23:00 AM          | 13.7                       | 15.7                           | 2.00       |
| 11:24:00 AM          | 13.6                       | 15.9                           | 2.30       |
| 11:25:00 AM          | 13.6                       | 15.9                           | 2.30       |
| 11:26:00 AM          | 13.6                       | 16.1                           | 2.50       |
| 11:27:00 AM          | 13.6                       | 16.3                           | 2.70       |
| 11:28:00 AM          | 13.8                       | 16.2                           | 2.40       |
| 11:29:00 AM          | 13.9                       | 15.4                           | 1.50       |
| 11:30:00 AM          | 14.3                       | 14.9                           | 0.60       |
| 11:31:00 AM          | 14.3                       | 14.8                           | 0.50       |
| 11:32:00 AM          | 14.6                       | 14.5                           | -0.10      |
| 11:33:00 AM          | 14.7                       | 14.3                           | -0.40      |
| 11:34:00 AM          | 14.8                       | 14.3                           | -0.50      |
| 11:35:00 AM          | 15.0                       | 14.5                           | -0.50      |
| 11:36:00 AM          | 15.4                       | 14.6                           | -0.80      |
| 11:37:00 AM          | 15.5                       | 14.8                           | -0.70      |
| 11:38:00 AM          | 15.8                       | 15.0                           | -0.80      |
| 11:39:00 AM          | 15.9                       | 15.0                           | -0.90      |
| <b>Promedio</b>      | <b>14.64</b>               | <b>14.75</b>                   |            |
| <b>Desviación</b>    | <b>0.740</b>               | <b>0.834</b>                   |            |
| <b>Max</b>           | <b>15.90</b>               | <b>16.30</b>                   |            |
| <b>Min</b>           | <b>13.60</b>               | <b>13.10</b>                   |            |

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Fecha de Calibración:

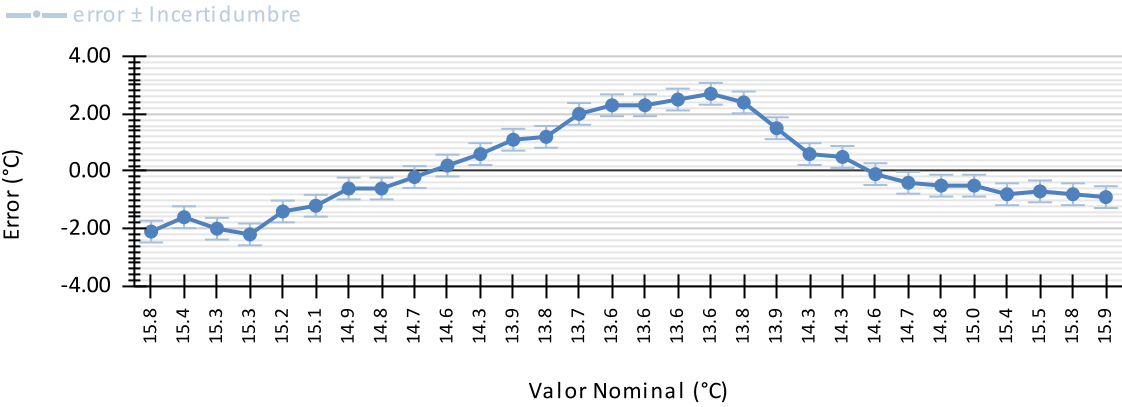
2025-11-15

HWA-SUNG-THERMO

Tabla 2.0: Lecturas de la HUMEDAD RELATIVA en el área de trabajo (%HR)

| Tiempo<br>(hh:mm:ss) | Humedad Relativa<br>Patrón (%HR) | Humedad Relativa<br>Calibrando (%HR) | Error (%HR) |
|----------------------|----------------------------------|--------------------------------------|-------------|
| 11:10:00 AM          | 60.3                             | 58.5                                 | -1.80       |
| 11:11:00 AM          | 60.4                             | 58.4                                 | -2.00       |
| 11:12:00 AM          | 60.8                             | 58.3                                 | -2.50       |
| 11:13:00 AM          | 60.9                             | 58.2                                 | -2.70       |
| 11:14:00 AM          | 60.4                             | 58.0                                 | -2.40       |
| 11:15:00 AM          | 60.3                             | 58.0                                 | -2.30       |
| 11:16:00 AM          | 60.1                             | 59.2                                 | -0.90       |
| 11:17:00 AM          | 60.0                             | 59.3                                 | -0.70       |
| 11:18:00 AM          | 59.5                             | 59.4                                 | -0.10       |
| 11:19:00 AM          | 59.4                             | 59.4                                 | 0.00        |
| 11:20:00 AM          | 59.3                             | 59.1                                 | -0.20       |
| 11:21:00 AM          | 59.2                             | 59.0                                 | -0.20       |
| 11:22:00 AM          | 59.1                             | 58.5                                 | -0.60       |
| 11:23:00 AM          | 59.3                             | 58.4                                 | -0.90       |
| 11:24:00 AM          | 59.4                             | 58.3                                 | -1.10       |
| 11:25:00 AM          | 59.5                             | 58.2                                 | -1.30       |
| 11:26:00 AM          | 58.9                             | 58.0                                 | -0.90       |
| 11:27:00 AM          | 58.7                             | 58.0                                 | -0.70       |
| 11:28:00 AM          | 58.6                             | 57.3                                 | -1.30       |
| 11:29:00 AM          | 58.9                             | 57.4                                 | -1.50       |
| 11:30:00 AM          | 59.0                             | 57.5                                 | -1.50       |
| 11:31:00 AM          | 59.0                             | 57.3                                 | -1.70       |
| 11:32:00 AM          | 59.3                             | 57.2                                 | -2.10       |
| 11:33:00 AM          | 59.4                             | 57.0                                 | -2.40       |
| 11:34:00 AM          | 59.8                             | 57.4                                 | -2.40       |
| 11:35:00 AM          | 60.3                             | 57.8                                 | -2.50       |
| 11:36:00 AM          | 60.4                             | 57.9                                 | -2.50       |
| 11:37:00 AM          | 60.6                             | 58.3                                 | -2.30       |
| 11:38:00 AM          | 60.7                             | 58.5                                 | -2.20       |
| 11:39:00 AM          | 60.9                             | 58.9                                 | -2.00       |
| <b>Promedio</b>      | <b>59.75</b>                     | <b>58.22</b>                         |             |
| <b>Desviación</b>    | <b>0.708</b>                     | <b>0.686</b>                         |             |
| <b>Max</b>           | <b>60.90</b>                     | <b>59.40</b>                         |             |
| <b>Min</b>           | <b>58.60</b>                     | <b>57.00</b>                         |             |

Curva de Calibración - TEMPERATURA



Curva de Calibración - % HUMEDAD RELATIVA

