



Cert. #:4038.01

CERTIFICADO DE CALIBRACIÓN / CALIBRATION CERTIFICATE

|                                                          |                                                         |
|----------------------------------------------------------|---------------------------------------------------------|
| INNOVATECIS CIA LTDA                                     | Certificado No. (Certificate #): 63811                  |
| General José María Guerrero N69-170 y Alfonso del Hierro | Fecha de Recepción (Reception Date): 2025-11-27         |
| Quito, Ecuador                                           | Fecha de Calibración (Calibration Date): 2025-11-27     |
| (+593) 02 6040 607                                       | Próxima Fecha de Calibración (Calibration Due): 2026-11 |
| innovatec@innovatec.com.ec                               | Fecha de Emisión (Emission Date): 2025-11-27            |

|                   |                                                                      |
|-------------------|----------------------------------------------------------------------|
| Cliente (Client): | INTEGRATED LOGISTICS SERVICES SERVOLOGISTICS S.A.                    |
|                   | De las Avellanas E7-40 y De Los Cipreses, QUITO (PICHINCHA), ECUADOR |

|                                                      |                                      |                                              |                       |                      |               |
|------------------------------------------------------|--------------------------------------|----------------------------------------------|-----------------------|----------------------|---------------|
| Información del Instrumento (Instrument Information) |                                      |                                              |                       |                      |               |
| Equipo (Instrument):                                 | Registrador de Temperatura y Humedad | Código (Code):                               | PCI-3401              | Int. de Medición:    | (-25 a 70) °C |
| Marca (Brand):                                       | *****                                | Ubicación (Location):                        | Camión Placa PCI-3401 | (Measurement Range): | (0 a 100) %HR |
| Modelo (Model):                                      | *****                                | Lugar de Calibración (Place of Calibration): | In Situ               | División de escala:  | 0.01 °C       |
| Serie (Serial #):                                    | INN-63811                            |                                              | On Site               | (Resolution):        | 0.01 %HR      |

|                                         |  |                                                    |                  |                     |                  |
|-----------------------------------------|--|----------------------------------------------------|------------------|---------------------|------------------|
| Datos de Calibración (Calibration Info) |  | Condiciones Ambientales (Environmental Conditions) |                  |                     |                  |
| Procedimiento (Procedure): INN-PC-24    |  | Temperatura (Temp):                                | (21.8 a 21.5) °C | Humedad (Humidity): | (52.3 a 52.9)%HR |

|                                  |               |         |                                |                  |  |
|----------------------------------|---------------|---------|--------------------------------|------------------|--|
| Trazabilidad (Traceability Info) |               |         |                                |                  |  |
| Patrón (Standard)                | Marca (Brand) | Cert. # | Última Calibración (Last Cal.) | Período (Period) |  |
| Termohigrómetro                  | GOVEE         | 54330   | 2025-03-03                     | 1 año            |  |

|                      |                   |           |               |                   |                             |
|----------------------|-------------------|-----------|---------------|-------------------|-----------------------------|
| Resultados (Results) |                   |           |               |                   |                             |
| Nominal (Nominal)    | Patrón (Standard) | UBP (UUT) | Error (Error) | E.M.P (Tolerance) | Incertidumbre (Uncertainty) |
| 23 °C                | 23.38 °C          | 22.98 °C  | -0.4 °C       | ± 0.5 °C          | ± 0.38 °C                   |
| 55 %HR               | 55.76 %HR         | 58.65 %HR | 2.89 %HR      | ± 5 %HR           | ± 3.0 %HR                   |
| -                    | -                 | -         | -             | -                 | -                           |
| -                    | -                 | -         | -             | -                 | -                           |
| -                    | -                 | -         | -             | -                 | -                           |
| -                    | -                 | -         | -             | -                 | -                           |
| -                    | -                 | -         | -             | -                 | -                           |
| -                    | -                 | -         | -             | -                 | -                           |
| -                    | -                 | -         | -             | -                 | -                           |
| -                    | -                 | -         | -             | -                 | -                           |
| -                    | -                 | -         | -             | -                 | -                           |

El presente Certificado de Calibración posee la trazabilidad en esta magnitud hacia el Patrón Nacional, a través de la realización de la unidad de medida en el NPL, NIST, o otro Laboratorio Nacional reconocido al Sistema Internacional de Medidas. La calibración fue realizada bajo un Sistema de Gestión de Laboratorio conforme a la Norma ISO/IEC 17025:2017. Los resultados y su incertidumbre reportada con un nivel de confianza de K=2, 95% son relacionados a este instrumento y en el tiempo que se realizó las medidas. Este Laboratorio no se responsabiliza de los perjuicios que pueda ocasionar el uso inadecuado del instrumento calibrado. La reproducción parcial es prohibida, la reproducción total deberá hacerse con la autorización escrita aprobada por INNOVATEC Industrial Solutions. *This Certificate of Calibration provides traceability of measurement to the National Standard, through units of measurement realized at the NPL, NIST or other recognized National Standard Laboratories to the International System of Units. The calibration was performed under a Laboratory Management System in accordance with the ISO/IEC 17025:2017 Standard. The results and the reported uncertainty at a confidence level of K=2, 95% are related only to this instrument and at the time of measurement. This Laboratory is not responsible for any damages that may result from improper use of the calibrated instrument. Partial reproduction is forbidden, the total reproduction must have an approved written authorization by INNOVATEC Industrial Solutions.*

|              |          |
|--------------|----------|
| Comentarios: | Ninguna. |
| Comments     |          |

|                |                  |               |  |
|----------------|------------------|---------------|--|
| Calibrado por: | Ing. Isaac Calle | Aprobado por: |  |
| Calibrated by: |                  | Approved by:  |  |



Fin de Certificado (End of Certificate)

Certificado No.:

63811

Registrador de Temperatura y Humedad

Fecha de Calibración:

2025-11-27

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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) |
|----------------------|----------------------------|--------------------------------|------------|
| 9:10:00 AM           | 21.8                       | 16.5                           | -5.30      |
| 9:11:00 AM           | 21.8                       | 19.2                           | -2.60      |
| 9:12:00 AM           | 21.8                       | 21.0                           | -0.80      |
| 9:13:00 AM           | 22.3                       | 21.0                           | -1.30      |
| 9:14:00 AM           | 22.5                       | 21.0                           | -1.50      |
| 9:15:00 AM           | 22.7                       | 21.7                           | -1.00      |
| 9:16:00 AM           | 22.7                       | 21.7                           | -1.00      |
| 9:17:00 AM           | 22.7                       | 21.7                           | -1.00      |
| 9:18:00 AM           | 23.1                       | 22.5                           | -0.60      |
| 9:19:00 AM           | 23.1                       | 22.5                           | -0.60      |
| 9:20:00 AM           | 23.1                       | 22.5                           | -0.60      |
| 9:21:00 AM           | 23.1                       | 22.5                           | -0.60      |
| 9:22:00 AM           | 23.1                       | 23.0                           | -0.10      |
| 9:23:00 AM           | 23.4                       | 23.0                           | -0.40      |
| 9:24:00 AM           | 23.4                       | 23.0                           | -0.40      |
| 9:25:00 AM           | 23.4                       | 23.0                           | -0.40      |
| 9:26:00 AM           | 23.4                       | 23.5                           | 0.10       |
| 9:27:00 AM           | 23.4                       | 23.5                           | 0.10       |
| 9:28:00 AM           | 23.4                       | 23.5                           | 0.10       |
| 9:29:00 AM           | 23.7                       | 24.2                           | 0.50       |
| 9:30:00 AM           | 23.7                       | 24.2                           | 0.50       |
| 9:31:00 AM           | 23.7                       | 24.7                           | 1.00       |
| 9:32:00 AM           | 23.7                       | 24.7                           | 1.00       |
| 9:33:00 AM           | 23.2                       | 24.7                           | 1.50       |
| 9:34:00 AM           | 23.2                       | 24.7                           | 1.50       |
| 9:35:00 AM           | 23.2                       | 25.2                           | 2.00       |
| 9:36:00 AM           | 23.2                       | 25.2                           | 2.00       |
| 9:37:00 AM           | 23.5                       | 25.2                           | 1.70       |
| 9:38:00 AM           | 23.5                       | 25.2                           | 1.70       |
| 9:39:00 AM           | 32.5                       | 25.2                           | -7.30      |
| <b>Promedio</b>      | <b>23.38</b>               | <b>22.98</b>                   |            |
| <b>Desviación</b>    | <b>1.809</b>               | <b>1.984</b>                   |            |
| <b>Max</b>           | <b>32.50</b>               | <b>25.20</b>                   |            |
| <b>Min</b>           | <b>21.80</b>               | <b>16.50</b>                   |            |

Certificado No.:

63811

Registrador de Temperatura y Humedad

Fecha de Calibración:

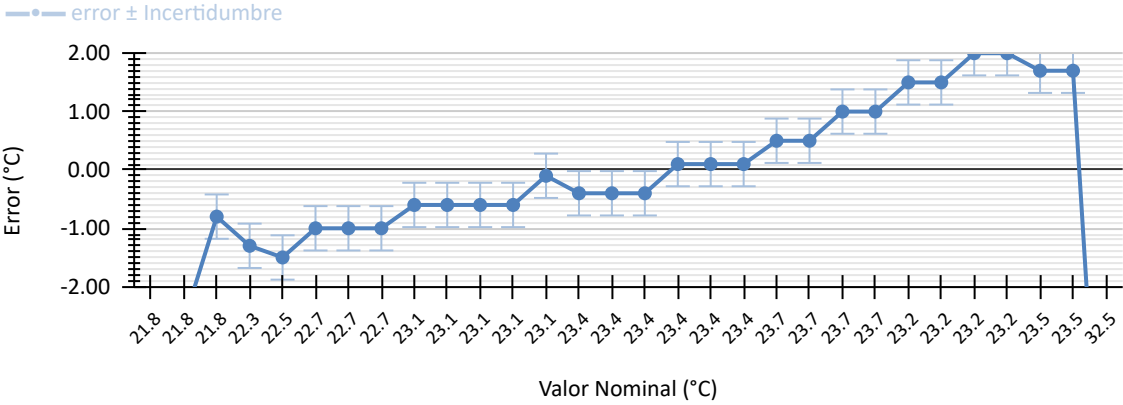
2025-11-27

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

| Tiempo (hh:mm:ss) | Humedad Relativa Patrón (%HR) | Humedad Relativa Calibrando (%HR) | Error (%HR) |
|-------------------|-------------------------------|-----------------------------------|-------------|
| 9:10:00 AM        | 58.5                          | 69.2                              | 10.70       |
| 9:11:00 AM        | 58.2                          | 62.5                              | 4.30        |
| 9:12:00 AM        | 57.9                          | 62.1                              | 4.20        |
| 9:13:00 AM        | 57.6                          | 62.1                              | 4.50        |
| 9:14:00 AM        | 57.3                          | 62.1                              | 4.80        |
| 9:15:00 AM        | 57.1                          | 59.4                              | 2.30        |
| 9:16:00 AM        | 57.0                          | 59.4                              | 2.40        |
| 9:17:00 AM        | 56.7                          | 59.4                              | 2.70        |
| 9:18:00 AM        | 56.6                          | 59.0                              | 2.40        |
| 9:19:00 AM        | 56.3                          | 59.0                              | 2.70        |
| 9:20:00 AM        | 56.2                          | 59.0                              | 2.80        |
| 9:21:00 AM        | 56.1                          | 59.0                              | 2.90        |
| 9:22:00 AM        | 56.0                          | 61.2                              | 5.20        |
| 9:23:00 AM        | 55.8                          | 61.2                              | 5.40        |
| 9:24:00 AM        | 55.7                          | 61.2                              | 5.50        |
| 9:25:00 AM        | 55.5                          | 61.2                              | 5.70        |
| 9:26:00 AM        | 55.4                          | 59.6                              | 4.20        |
| 9:27:00 AM        | 55.2                          | 59.6                              | 4.40        |
| 9:28:00 AM        | 55.1                          | 59.6                              | 4.50        |
| 9:29:00 AM        | 55.0                          | 55.8                              | 0.80        |
| 9:30:00 AM        | 54.8                          | 55.8                              | 1.00        |
| 9:31:00 AM        | 54.7                          | 55.3                              | 0.60        |
| 9:32:00 AM        | 54.6                          | 55.3                              | 0.70        |
| 9:33:00 AM        | 54.5                          | 55.3                              | 0.80        |
| 9:34:00 AM        | 54.4                          | 55.3                              | 0.90        |
| 9:35:00 AM        | 54.3                          | 54.2                              | -0.10       |
| 9:36:00 AM        | 54.2                          | 54.2                              | 0.00        |
| 9:37:00 AM        | 54.1                          | 54.2                              | 0.10        |
| 9:38:00 AM        | 54.0                          | 54.2                              | 0.20        |
| 9:39:00 AM        | 53.9                          | 54.2                              | 0.30        |
| <b>Promedio</b>   | <b>55.76</b>                  | <b>58.65</b>                      |             |
| <b>Desviación</b> | <b>1.334</b>                  | <b>3.488</b>                      |             |
| <b>Max</b>        | <b>58.50</b>                  | <b>69.20</b>                      |             |
| <b>Min</b>        | <b>53.90</b>                  | <b>54.20</b>                      |             |

Curva de Calibración - TEMPERATURA



Curva de Calibración - % HUMEDAD RELATIVA

