

# CERTIFICADO DE CALIBRACIÓN / CALIBRATION CERTIFICATE

**INNOVATECIS CIA LTDA**

General José María Guerrero N69-170 y Alfonso del Hierro

Quito, Ecuador

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innovatec@innovatec.com.ec

Certificado No. (Certificate #): 63232

Fecha de Recepción (Reception Date): 2025-11-11

Fecha de Calibración (Calibration Date): 2025-11-14

Próxima Fecha de Calibración (Calibration Due):

Fecha de Emisión (Emission Date): 2025-11-14

**Cliente (Client):** CUYABENOPETRO S A  
AVENIDA PAMPITE S/N Y SIMÓN VALENZUELA EDIFICIO YOO CUMBAYÁ OFICINA 517, CUMBAYA, PICHINCHA

**Información del Instrumento (Instrument Information)**

|                             |                   |                            |               |                              |                  |
|-----------------------------|-------------------|----------------------------|---------------|------------------------------|------------------|
| <b>Equipo (Instrument):</b> | BAÑO MARÍA        | <b>Int. de Medición:</b>   | (5 a 99.9) °C | <b>Ubicación:</b>            | *****            |
| <b>Marca (Brand):</b>       | EQUITRON          |                            |               |                              |                  |
| <b>Modelo (Model):</b>      | 7514              | <b>División de escala:</b> | 0.1 °C        | <b>Lugar de Calibración:</b> | Lab. INNOVATEC   |
| <b>Serie (Serial #):</b>    | 7514.AIH.004552.A |                            |               |                              | INNOVATEC's Lab. |

**Datos de Calibración (Calibration Info)**

Procedimiento (Procedure): INN-PC-29

**Condiciones Ambientales (Environmental Conditions)**

Temp. Inicial (Initial Temp.): 24.7 °C

Hum. Inicial (Initial Hum.): 41.6 %HR

Temp. Final (Final Temp.): 25.2 °C

Hum. Final (Final Hum.): 40.5 %HR

Procedimiento de Referencia (Reference Procedure): PCE 131/700-301, Ing. Mauricio Araya, CESMEC - Chile

**Trazabilidad (Traceability Info)**

| Patrón (Standard)   | Marca (Brand) | Cert. #      | Ultima Calibración (Last Cal.) | Período (Period) |
|---------------------|---------------|--------------|--------------------------------|------------------|
| Termocupla          | -             | 56730, 56686 | 2025-05-14                     | 1 año            |
| Termocupla          | -             | 56682, 56683 | 2025-05-14                     | 1 año            |
| PRT                 | ISOTECH       | AC-28719     | 2023-05-15                     | 2 años           |
| Advanced Multimeter | Transmille    | 51065        | 2024-03-26                     | 2 años           |
| -                   | -             | -            | -                              | -                |

**Resultados (Results)**

Ver Resultados en Hoja Adjunta

See results in attached Sheet

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, u 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:** Los resultados son un promedio de los datos tomados durante la calibración. El Procedimiento de Referencia NO especifica una regla de cumplimiento, para lo cual se considera el valor del criterio establecido por el cliente de  $\pm 2.5$  °C, con lo cual el equipo SI Cumple con los Errores Máximos Permitidos en Estabilidad.

Calibrado por:  
Calibrated by: Ing. Patricio Llerena

Aprobado por:  
Approved by:

Fin de Certificado (End of Certificate)

Certificado No.: 63232

Equipo (Instrument): BAÑO MARÍA

Fecha de Calibración: 2025-11-14

Marca (Brand): EQUITRON

| Nominal<br>(Nominal) | Patrón<br>(Standard) | UBP<br>(UUT) | Error<br>(Error) | Exactitud<br>(Accuracy) | Estabilidad<br>(Stability) | Uniformidad<br>(Uniformity) | Incertidumbre<br>(Uncertainty) |
|----------------------|----------------------|--------------|------------------|-------------------------|----------------------------|-----------------------------|--------------------------------|
| 50 °C                | 50.070 °C            | 51.06 °C     | 0.985 °C         | ± 1.0 °C                | 0.360 °C                   | 0.223 °C                    | ± 0.26 °C                      |
| 70 °C                | 69.302 °C            | 69.99 °C     | 0.688 °C         | ± 1.0 °C                | 0.642 °C                   | 0.502 °C                    | ± 0.95 °C                      |
| 80 °C                | 81.066 °C            | 80.34 °C     | -0.726 °C        | ± 1.0 °C                | 0.806 °C                   | 0.755 °C                    | ± 1.3 °C                       |
| 90 °C                | 89.8370 °C           | 89.54 °C     | -0.297 °C        | ± 1.0 °C                | 0.667 °C                   | 0.667 °C                    | ± 1.3 °C                       |

## Diagram de Posición de Sensores (Sensor Position Diagram)



## Leyenda:

- 1: Sensor #1
- 2: Sensor #2
- 3: Sensor #3
- 4: Sensor #4

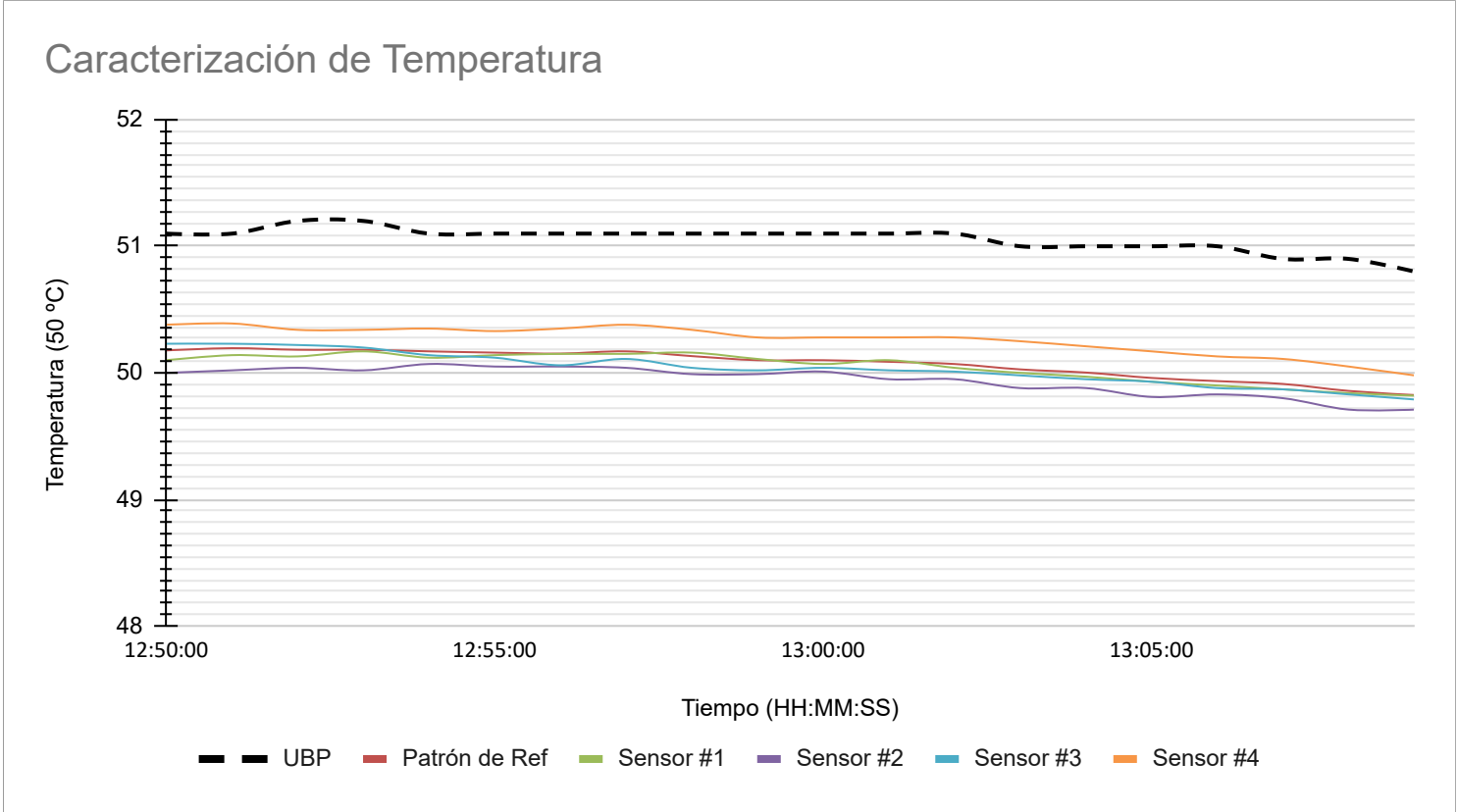
Las imágenes utilizadas solo son un ejemplo de lo puntos de medida empleados y posición de los sensores.

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Equipo (Instrument): BAÑO MARÍA  
Marca (Brand): EQUITRON

| Hora<br>(Time) | UBP<br>(UUT) | Patrón de Ref<br>(Ref. Standard) | Sensor #1<br>(Sensor #1) | Sensor #2<br>(Sensor #2) | Sensor #3<br>(Sensor #3) | Sensor #4<br>(Sensor #4) | Sensor #5<br>(Sensor #5) | Sensor #6<br>(Sensor #6) | Sensor #7<br>(Sensor #7) | Sensor #8<br>(Sensor #8) | Error<br>(Error) |
|----------------|--------------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|
| 12:50:00       | 51.1 °C      | 50.178 °C                        | 50.10 °C                 | 50.00 °C                 | 50.23 °C                 | 50.38 °C                 |                          |                          |                          |                          | 0.923 °C         |
| 12:51:00       | 51.1 °C      | 50.195 °C                        | 50.14 °C                 | 50.02 °C                 | 50.23 °C                 | 50.39 °C                 |                          |                          |                          |                          | 0.905 °C         |
| 12:52:00       | 51.2 °C      | 50.183 °C                        | 50.13 °C                 | 50.04 °C                 | 50.22 °C                 | 50.34 °C                 |                          |                          |                          |                          | 1.018 °C         |
| 12:53:00       | 51.2 °C      | 50.183 °C                        | 50.17 °C                 | 50.02 °C                 | 50.2 °C                  | 50.34 °C                 |                          |                          |                          |                          | 1.018 °C         |
| 12:54:00       | 51.1 °C      | 50.170 °C                        | 50.12 °C                 | 50.07 °C                 | 50.14 °C                 | 50.35 °C                 |                          |                          |                          |                          | 0.930 °C         |
| 12:55:00       | 51.1 °C      | 50.160 °C                        | 50.14 °C                 | 50.05 °C                 | 50.12 °C                 | 50.33 °C                 |                          |                          |                          |                          | 0.940 °C         |
| 12:56:00       | 51.1 °C      | 50.153 °C                        | 50.15 °C                 | 50.05 °C                 | 50.06 °C                 | 50.35 °C                 |                          |                          |                          |                          | 0.948 °C         |
| 12:57:00       | 51.1 °C      | 50.170 °C                        | 50.15 °C                 | 50.04 °C                 | 50.11 °C                 | 50.38 °C                 |                          |                          |                          |                          | 0.930 °C         |
| 12:58:00       | 51.1 °C      | 50.133 °C                        | 50.16 °C                 | 49.99 °C                 | 50.04 °C                 | 50.34 °C                 |                          |                          |                          |                          | 0.968 °C         |
| 12:59:00       | 51.1 °C      | 50.100 °C                        | 50.11 °C                 | 49.99 °C                 | 50.02 °C                 | 50.28 °C                 |                          |                          |                          |                          | 1.000 °C         |
| 13:00:00       | 51.1 °C      | 50.100 °C                        | 50.07 °C                 | 50.01 °C                 | 50.04 °C                 | 50.28 °C                 |                          |                          |                          |                          | 1.000 °C         |
| 13:01:00       | 51.1 °C      | 50.088 °C                        | 50.10 °C                 | 49.95 °C                 | 50.02 °C                 | 50.28 °C                 |                          |                          |                          |                          | 1.013 °C         |
| 13:02:00       | 51.1 °C      | 50.070 °C                        | 50.04 °C                 | 49.95 °C                 | 50.01 °C                 | 50.28 °C                 |                          |                          |                          |                          | 1.030 °C         |
| 13:03:00       | 51.0 °C      | 50.028 °C                        | 50.00 °C                 | 49.88 °C                 | 49.98 °C                 | 50.25 °C                 |                          |                          |                          |                          | 0.973 °C         |
| 13:04:00       | 51.0 °C      | 50.003 °C                        | 49.97 °C                 | 49.88 °C                 | 49.95 °C                 | 50.21 °C                 |                          |                          |                          |                          | 0.997 °C         |
| 13:05:00       | 51.0 °C      | 49.960 °C                        | 49.93 °C                 | 49.81 °C                 | 49.93 °C                 | 50.17 °C                 |                          |                          |                          |                          | 1.040 °C         |
| 13:06:00       | 51.0 °C      | 49.935 °C                        | 49.90 °C                 | 49.83 °C                 | 49.88 °C                 | 50.13 °C                 |                          |                          |                          |                          | 1.065 °C         |
| 13:07:00       | 50.9 °C      | 49.913 °C                        | 49.87 °C                 | 49.80 °C                 | 49.87 °C                 | 50.11 °C                 |                          |                          |                          |                          | 0.988 °C         |
| 13:08:00       | 50.9 °C      | 49.858 °C                        | 49.84 °C                 | 49.71 °C                 | 49.83 °C                 | 50.05 °C                 |                          |                          |                          |                          | 1.043 °C         |
| 13:09:00       | 50.8 °C      | 49.825 °C                        | 49.82 °C                 | 49.71 °C                 | 49.79 °C                 | 49.98 °C                 |                          |                          |                          |                          | 0.975 °C         |

Graficos (Graphs):

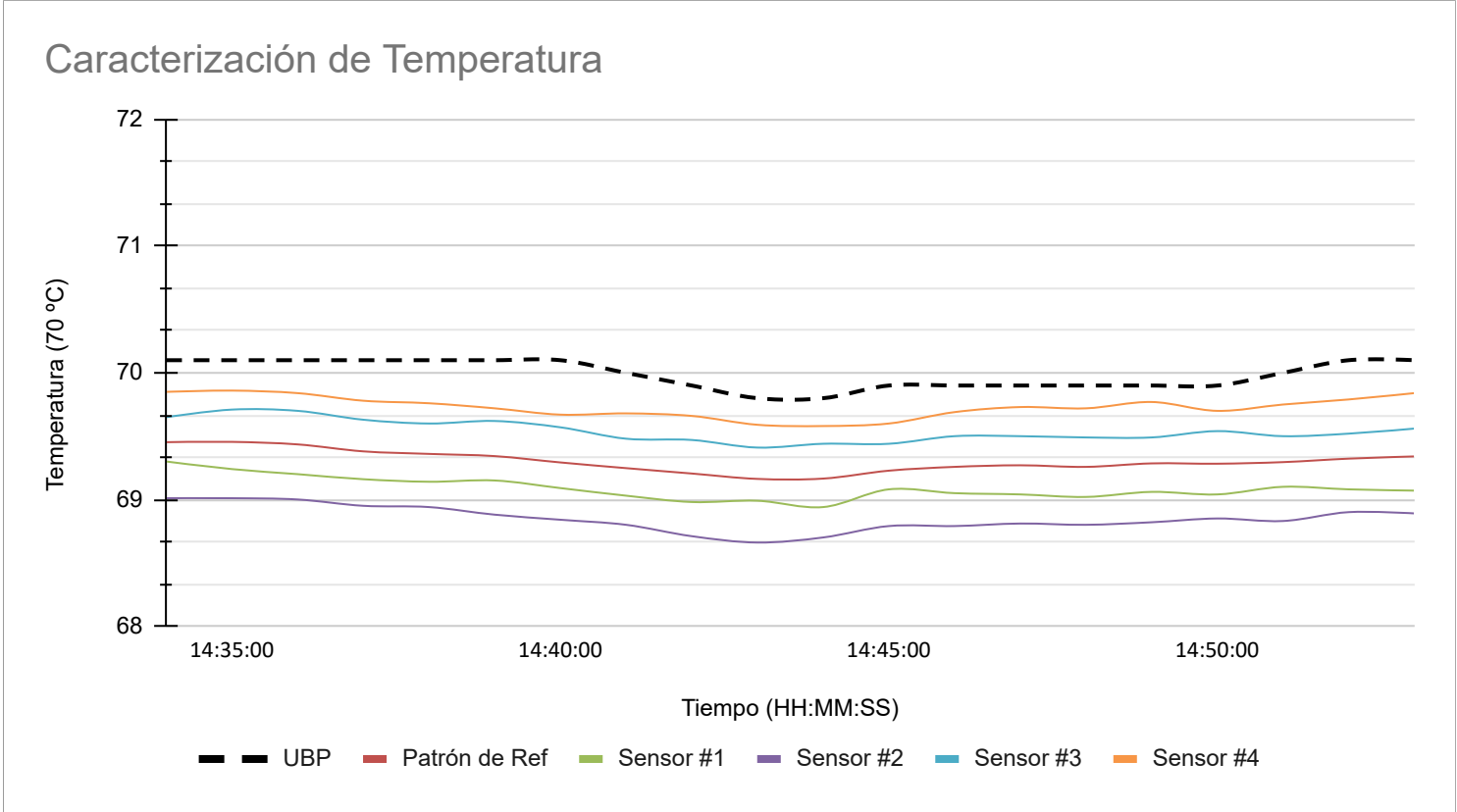


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Equipo (Instrument): BAÑO MARÍA  
Marca (Brand): EQUITRON

| Hora<br>(Time) | UBP<br>(UUT) | Patrón de Ref<br>(Ref. Standard) | Sensor #1<br>(Sensor #1) | Sensor #2<br>(Sensor #2) | Sensor #3<br>(Sensor #3) | Sensor #4<br>(Sensor #4) | Sensor #5<br>(Sensor #5) | Sensor #6<br>(Sensor #6) | Sensor #7<br>(Sensor #7) | Sensor #8<br>(Sensor #8) | Error<br>(Error) |
|----------------|--------------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|
| 14:34:00       | 70.1 °C      | 69.453 °C                        | 69.30 °C                 | 69.01 °C                 | 69.65 °C                 | 69.85 °C                 |                          |                          |                          |                          | 0.647 °C         |
| 14:35:00       | 70.1 °C      | 69.455 °C                        | 69.24 °C                 | 69.01 °C                 | 69.71 °C                 | 69.86 °C                 |                          |                          |                          |                          | 0.645 °C         |
| 14:36:00       | 70.1 °C      | 69.435 °C                        | 69.20 °C                 | 69.00 °C                 | 69.70 °C                 | 69.84 °C                 |                          |                          |                          |                          | 0.665 °C         |
| 14:37:00       | 70.1 °C      | 69.380 °C                        | 69.16 °C                 | 68.95 °C                 | 69.63 °C                 | 69.78 °C                 |                          |                          |                          |                          | 0.720 °C         |
| 14:38:00       | 70.1 °C      | 69.360 °C                        | 69.14 °C                 | 68.94 °C                 | 69.60 °C                 | 69.76 °C                 |                          |                          |                          |                          | 0.740 °C         |
| 14:39:00       | 70.1 °C      | 69.343 °C                        | 69.15 °C                 | 68.88 °C                 | 69.62 °C                 | 69.72 °C                 |                          |                          |                          |                          | 0.757 °C         |
| 14:40:00       | 70.1 °C      | 69.293 °C                        | 69.09 °C                 | 68.84 °C                 | 69.57 °C                 | 69.67 °C                 |                          |                          |                          |                          | 0.807 °C         |
| 14:41:00       | 70.0 °C      | 69.248 °C                        | 69.03 °C                 | 68.80 °C                 | 69.48 °C                 | 69.68 °C                 |                          |                          |                          |                          | 0.752 °C         |
| 14:42:00       | 69.9 °C      | 69.205 °C                        | 68.98 °C                 | 68.71 °C                 | 69.47 °C                 | 69.66 °C                 |                          |                          |                          |                          | 0.695 °C         |
| 14:43:00       | 69.8 °C      | 69.163 °C                        | 68.99 °C                 | 68.66 °C                 | 69.41 °C                 | 69.59 °C                 |                          |                          |                          |                          | 0.638 °C         |
| 14:44:00       | 69.8 °C      | 69.165 °C                        | 68.94 °C                 | 68.70 °C                 | 69.44 °C                 | 69.58 °C                 |                          |                          |                          |                          | 0.635 °C         |
| 14:45:00       | 69.9 °C      | 69.228 °C                        | 69.08 °C                 | 68.79 °C                 | 69.44 °C                 | 69.60 °C                 |                          |                          |                          |                          | 0.672 °C         |
| 14:46:00       | 69.9 °C      | 69.258 °C                        | 69.05 °C                 | 68.79 °C                 | 69.50 °C                 | 69.69 °C                 |                          |                          |                          |                          | 0.643 °C         |
| 14:47:00       | 69.9 °C      | 69.270 °C                        | 69.04 °C                 | 68.81 °C                 | 69.50 °C                 | 69.73 °C                 |                          |                          |                          |                          | 0.630 °C         |
| 14:48:00       | 69.9 °C      | 69.258 °C                        | 69.02 °C                 | 68.80 °C                 | 69.49 °C                 | 69.72 °C                 |                          |                          |                          |                          | 0.643 °C         |
| 14:49:00       | 69.9 °C      | 69.285 °C                        | 69.06 °C                 | 68.82 °C                 | 69.49 °C                 | 69.77 °C                 |                          |                          |                          |                          | 0.615 °C         |
| 14:50:00       | 69.9 °C      | 69.283 °C                        | 69.04 °C                 | 68.85 °C                 | 69.54 °C                 | 69.70 °C                 |                          |                          |                          |                          | 0.618 °C         |
| 14:51:00       | 70.0 °C      | 69.295 °C                        | 69.10 °C                 | 68.83 °C                 | 69.50 °C                 | 69.75 °C                 |                          |                          |                          |                          | 0.705 °C         |
| 14:52:00       | 70.1 °C      | 69.323 °C                        | 69.08 °C                 | 68.90 °C                 | 69.52 °C                 | 69.79 °C                 |                          |                          |                          |                          | 0.777 °C         |
| 14:53:00       | 70.1 °C      | 69.340 °C                        | 69.07 °C                 | 68.89 °C                 | 69.56 °C                 | 69.84 °C                 |                          |                          |                          |                          | 0.760 °C         |

Graficos (Graphs):

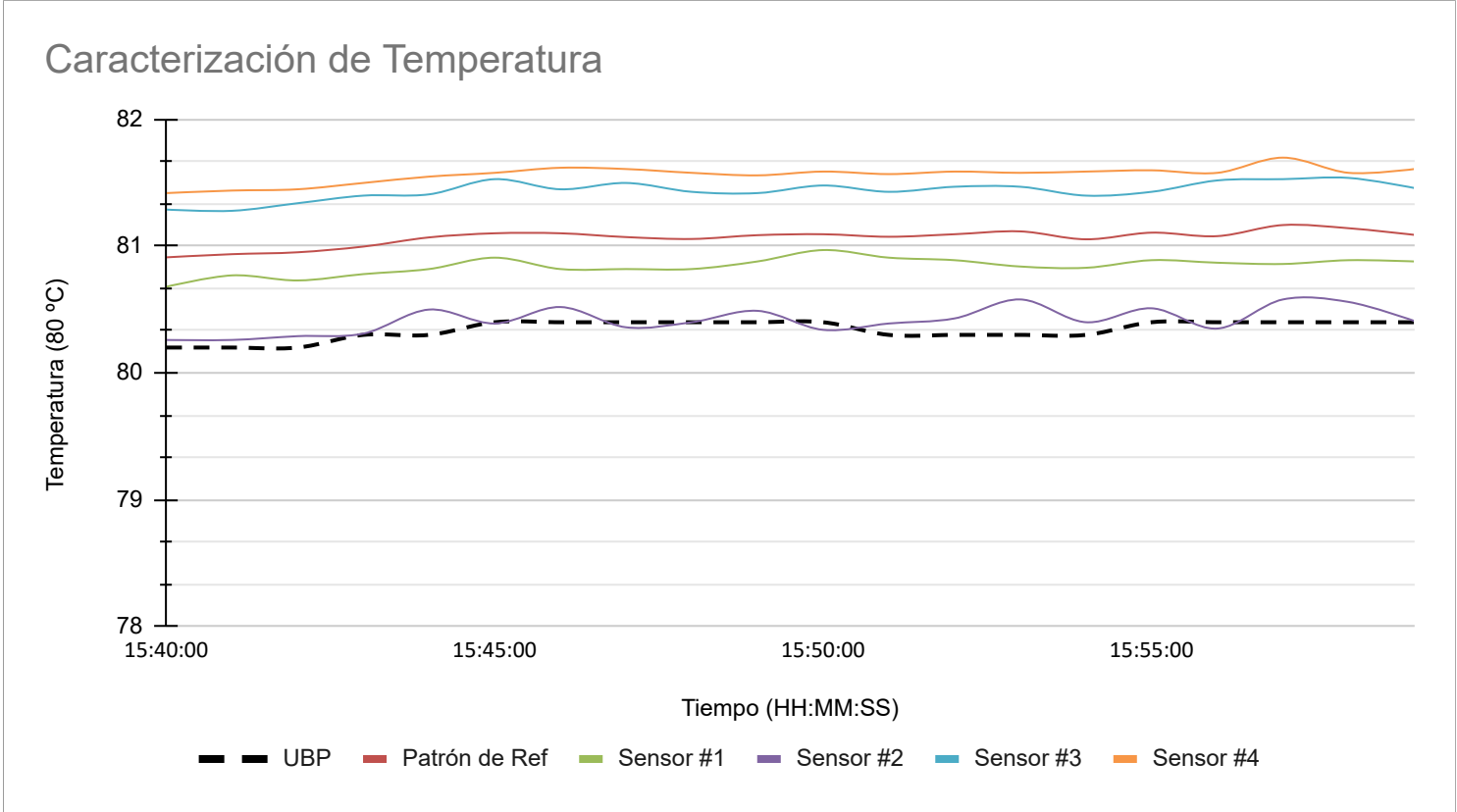


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Equipo (Instrument): BAÑO MARÍA  
Marca (Brand): EQUITRON

| Hora<br>(Time) | UBP<br>(UUT) | Patrón de Ref<br>(Ref. Standard) | Sensor #1<br>(Sensor #1) | Sensor #2<br>(Sensor #2) | Sensor #3<br>(Sensor #3) | Sensor #4<br>(Sensor #4) | Sensor #5<br>(Sensor #5) | Sensor #6<br>(Sensor #6) | Sensor #7<br>(Sensor #7) | Sensor #8<br>(Sensor #8) | Error<br>(Error) |
|----------------|--------------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|
| 15:40:00       | 80.2 °C      | 80.913 °C                        | 80.68 °C                 | 80.26 °C                 | 81.29 °C                 | 81.42 °C                 |                          |                          |                          |                          | -0.713 °C        |
| 15:41:00       | 80.2 °C      | 80.938 °C                        | 80.77 °C                 | 80.26 °C                 | 81.28 °C                 | 81.44 °C                 |                          |                          |                          |                          | -0.737 °C        |
| 15:42:00       | 80.2 °C      | 80.953 °C                        | 80.73 °C                 | 80.29 °C                 | 81.34 °C                 | 81.45 °C                 |                          |                          |                          |                          | -0.752 °C        |
| 15:43:00       | 80.3 °C      | 80.998 °C                        | 80.78 °C                 | 80.31 °C                 | 81.40 °C                 | 81.50 °C                 |                          |                          |                          |                          | -0.698 °C        |
| 15:44:00       | 80.3 °C      | 81.070 °C                        | 80.82 °C                 | 80.5 °C                  | 81.41 °C                 | 81.55 °C                 |                          |                          |                          |                          | -0.770 °C        |
| 15:45:00       | 80.4 °C      | 81.103 °C                        | 80.91 °C                 | 80.39 °C                 | 81.53 °C                 | 81.58 °C                 |                          |                          |                          |                          | -0.703 °C        |
| 15:46:00       | 80.4 °C      | 81.103 °C                        | 80.82 °C                 | 80.52 °C                 | 81.45 °C                 | 81.62 °C                 |                          |                          |                          |                          | -0.703 °C        |
| 15:47:00       | 80.4 °C      | 81.073 °C                        | 80.82 °C                 | 80.36 °C                 | 81.50 °C                 | 81.61 °C                 |                          |                          |                          |                          | -0.673 °C        |
| 15:48:00       | 80.4 °C      | 81.058 °C                        | 80.82 °C                 | 80.40 °C                 | 81.43 °C                 | 81.58 °C                 |                          |                          |                          |                          | -0.658 °C        |
| 15:49:00       | 80.4 °C      | 81.088 °C                        | 80.88 °C                 | 80.49 °C                 | 81.42 °C                 | 81.56 °C                 |                          |                          |                          |                          | -0.688 °C        |
| 15:50:00       | 80.4 °C      | 81.095 °C                        | 80.97 °C                 | 80.34 °C                 | 81.48 °C                 | 81.59 °C                 |                          |                          |                          |                          | -0.695 °C        |
| 15:51:00       | 80.3 °C      | 81.075 °C                        | 80.91 °C                 | 80.39 °C                 | 81.43 °C                 | 81.57 °C                 |                          |                          |                          |                          | -0.775 °C        |
| 15:52:00       | 80.3 °C      | 81.095 °C                        | 80.89 °C                 | 80.43 °C                 | 81.47 °C                 | 81.59 °C                 |                          |                          |                          |                          | -0.795 °C        |
| 15:53:00       | 80.3 °C      | 81.118 °C                        | 80.84 °C                 | 80.58 °C                 | 81.47 °C                 | 81.58 °C                 |                          |                          |                          |                          | -0.818 °C        |
| 15:54:00       | 80.3 °C      | 81.055 °C                        | 80.83 °C                 | 80.40 °C                 | 81.40 °C                 | 81.59 °C                 |                          |                          |                          |                          | -0.755 °C        |
| 15:55:00       | 80.4 °C      | 81.108 °C                        | 80.89 °C                 | 80.51 °C                 | 81.43 °C                 | 81.60 °C                 |                          |                          |                          |                          | -0.708 °C        |
| 15:56:00       | 80.4 °C      | 81.080 °C                        | 80.87 °C                 | 80.35 °C                 | 81.52 °C                 | 81.58 °C                 |                          |                          |                          |                          | -0.68 °C         |
| 15:57:00       | 80.4 °C      | 81.168 °C                        | 80.86 °C                 | 80.58 °C                 | 81.53 °C                 | 81.70 °C                 |                          |                          |                          |                          | -0.768 °C        |
| 15:58:00       | 80.4 °C      | 81.143 °C                        | 80.89 °C                 | 80.56 °C                 | 81.54 °C                 | 81.58 °C                 |                          |                          |                          |                          | -0.743 °C        |
| 15:59:00       | 80.4 °C      | 81.090 °C                        | 80.88 °C                 | 80.41 °C                 | 81.46 °C                 | 81.61 °C                 |                          |                          |                          |                          | -0.690 °C        |

Graficos (Graphs):



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Equipo (Instrument): BAÑO MARÍA  
Marca (Brand): EQUITRON

| Hora<br>(Time) | UBP<br>(UUT) | Patrón de Ref<br>(Ref. Standard) | Sensor #1<br>(Sensor #1) | Sensor #2<br>(Sensor #2) | Sensor #3<br>(Sensor #3) | Sensor #4<br>(Sensor #4) | Sensor #5<br>(Sensor #5) | Sensor #6<br>(Sensor #6) | Sensor #7<br>(Sensor #7) | Sensor #8<br>(Sensor #8) | Error<br>(Error) |
|----------------|--------------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|
| 16:45:00       | 89.5 °C      | 89.835 °C                        | 89.64 °C                 | 89.29 °C                 | 90.12 °C                 | 90.29 °C                 |                          |                          |                          |                          | -0.335 °C        |
| 16:46:00       | 89.5 °C      | 89.850 °C                        | 89.66 °C                 | 89.29 °C                 | 90.15 °C                 | 90.30 °C                 |                          |                          |                          |                          | -0.350 °C        |
| 16:47:00       | 89.5 °C      | 89.848 °C                        | 89.62 °C                 | 89.30 °C                 | 90.17 °C                 | 90.30 °C                 |                          |                          |                          |                          | -0.348 °C        |
| 16:48:00       | 89.6 °C      | 89.840 °C                        | 89.62 °C                 | 89.28 °C                 | 90.17 °C                 | 90.29 °C                 |                          |                          |                          |                          | -0.240 °C        |
| 16:49:00       | 89.6 °C      | 89.868 °C                        | 89.63 °C                 | 89.37 °C                 | 90.16 °C                 | 90.31 °C                 |                          |                          |                          |                          | -0.267 °C        |
| 16:50:00       | 89.6 °C      | 89.875 °C                        | 89.68 °C                 | 89.29 °C                 | 90.23 °C                 | 90.30 °C                 |                          |                          |                          |                          | -0.275 °C        |
| 16:51:00       | 89.6 °C      | 89.850 °C                        | 89.61 °C                 | 89.33 °C                 | 90.16 °C                 | 90.30 °C                 |                          |                          |                          |                          | -0.250 °C        |
| 16:52:00       | 89.6 °C      | 89.813 °C                        | 89.58 °C                 | 89.23 °C                 | 90.14 °C                 | 90.30 °C                 |                          |                          |                          |                          | -0.213 °C        |
| 16:53:00       | 89.5 °C      | 89.783 °C                        | 89.55 °C                 | 89.21 °C                 | 90.10 °C                 | 90.27 °C                 |                          |                          |                          |                          | -0.282 °C        |
| 16:54:00       | 89.5 °C      | 89.780 °C                        | 89.59 °C                 | 89.23 °C                 | 90.07 °C                 | 90.23 °C                 |                          |                          |                          |                          | -0.280 °C        |
| 16:55:00       | 89.5 °C      | 89.783 °C                        | 89.61 °C                 | 89.17 °C                 | 90.11 °C                 | 90.24 °C                 |                          |                          |                          |                          | -0.282 °C        |
| 16:56:00       | 89.5 °C      | 89.843 °C                        | 89.80 °C                 | 89.24 °C                 | 90.09 °C                 | 90.24 °C                 |                          |                          |                          |                          | -0.343 °C        |
| 16:57:00       | 89.5 °C      | 89.828 °C                        | 89.62 °C                 | 89.26 °C                 | 90.14 °C                 | 90.29 °C                 |                          |                          |                          |                          | -0.328 °C        |
| 16:58:00       | 89.5 °C      | 89.848 °C                        | 89.59 °C                 | 89.35 °C                 | 90.14 °C                 | 90.31 °C                 |                          |                          |                          |                          | -0.347 °C        |
| 16:59:00       | 89.5 °C      | 89.810 °C                        | 89.58 °C                 | 89.25 °C                 | 90.10 °C                 | 90.31 °C                 |                          |                          |                          |                          | -0.310 °C        |
| 17:00:00       | 89.5 °C      | 89.875 °C                        | 89.73 °C                 | 89.32 °C                 | 90.11 °C                 | 90.34 °C                 |                          |                          |                          |                          | -0.375 °C        |
| 17:01:00       | 89.5 °C      | 89.833 °C                        | 89.61 °C                 | 89.25 °C                 | 90.18 °C                 | 90.29 °C                 |                          |                          |                          |                          | -0.333 °C        |
| 17:02:00       | 89.6 °C      | 89.885 °C                        | 89.63 °C                 | 89.36 °C                 | 90.17 °C                 | 90.38 °C                 |                          |                          |                          |                          | -0.285 °C        |
| 17:03:00       | 89.6 °C      | 89.885 °C                        | 89.64 °C                 | 89.38 °C                 | 90.18 °C                 | 90.34 °C                 |                          |                          |                          |                          | -0.285 °C        |
| 17:04:00       | 89.6 °C      | 89.820 °C                        | 89.44 °C                 | 89.3 0°C                 | 90.16 °C                 | 90.38 °C                 |                          |                          |                          |                          | -0.220 °C        |

Graficos (Graphs):

