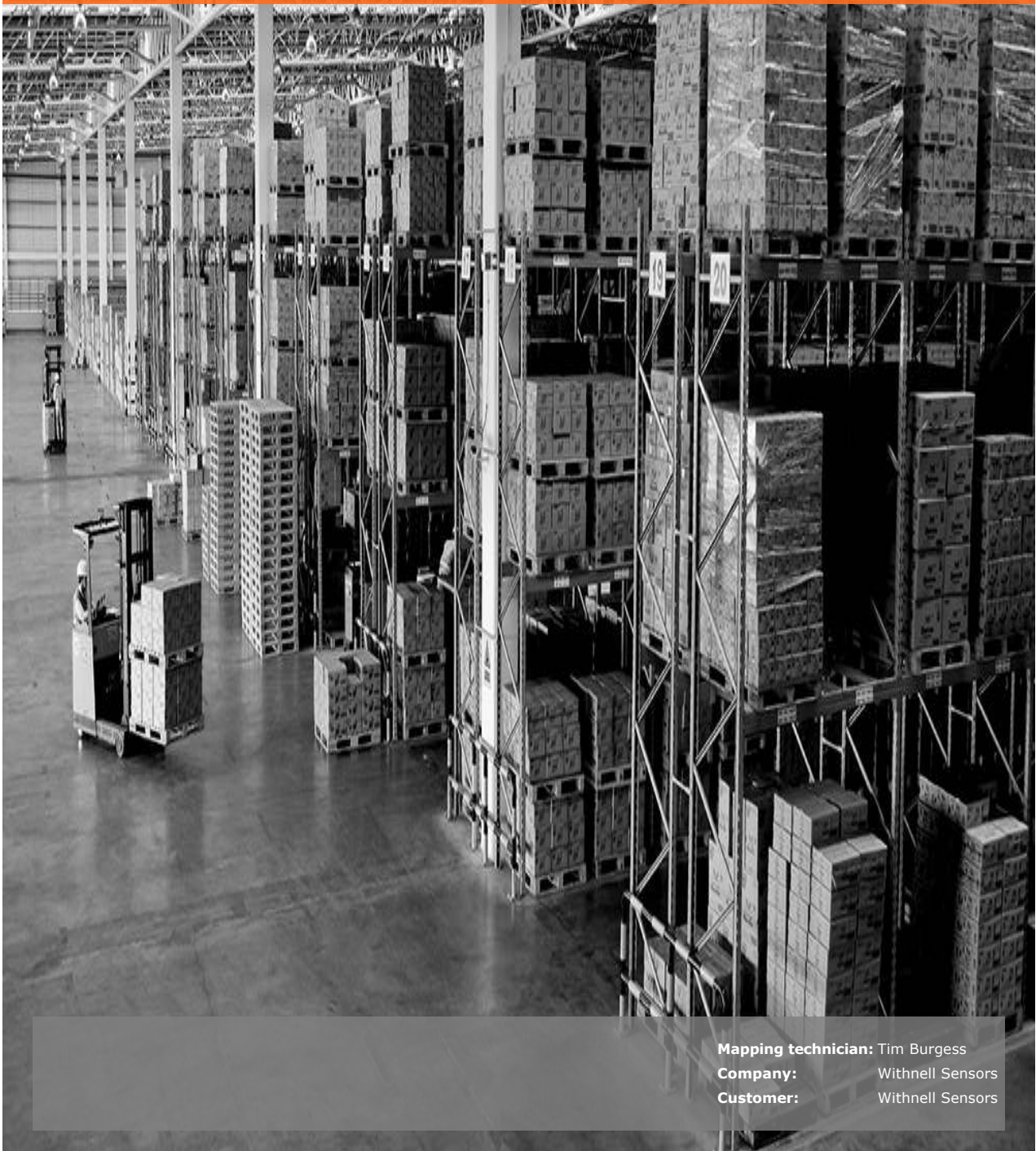


THERMAL MAPPING

Freezer 4



Mapping technician: Tim Burgess
Company: Withnell Sensors
Customer: Withnell Sensors

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1. Report Summary

| | Company | Customer |
|----------------|-------------------|-------------------|
| Name | Withnell Sensors | Withnell Sensors |
| Street | The Old Silk Mill | The Old Silk Mill |
| Address | PR6 8RX, Withnell | PR6 8RX, Withnell |
| Country | United Kingdom | United Kingdom |

| Mapping Details | |
|---------------------------|-------------------------------|
| Mapping Name | Freezer 4 |
| Reference ID | Freezer 4 |
| Mapping Technician | Tim Burgess |
| From | 04/02/2020 13:30:00 |
| To | 05/02/2020 13:31:00 |
| Duration | 1 day, 1 minute |
| Interval | 00:01:00 |
| Lower Acceptance Criteria | -31 °C |
| Upper Acceptance Criteria | -18 °C |
| # Of Mapping Loggers | 9 |
| # Of Outside Loggers | 1 |
| MKT Activation Energy | 83.14472 kJ/mol |
| Timezone | GMT Standard Time (UTC+01:00) |

1.1. Key Data

For the batch of 9 logger(s) the minimum, maximum, average, spread, Mean Kinetic Temperature (MKT) and standard deviation (Std) are calculated. The tables below show the lowest, highest and average values that are found.

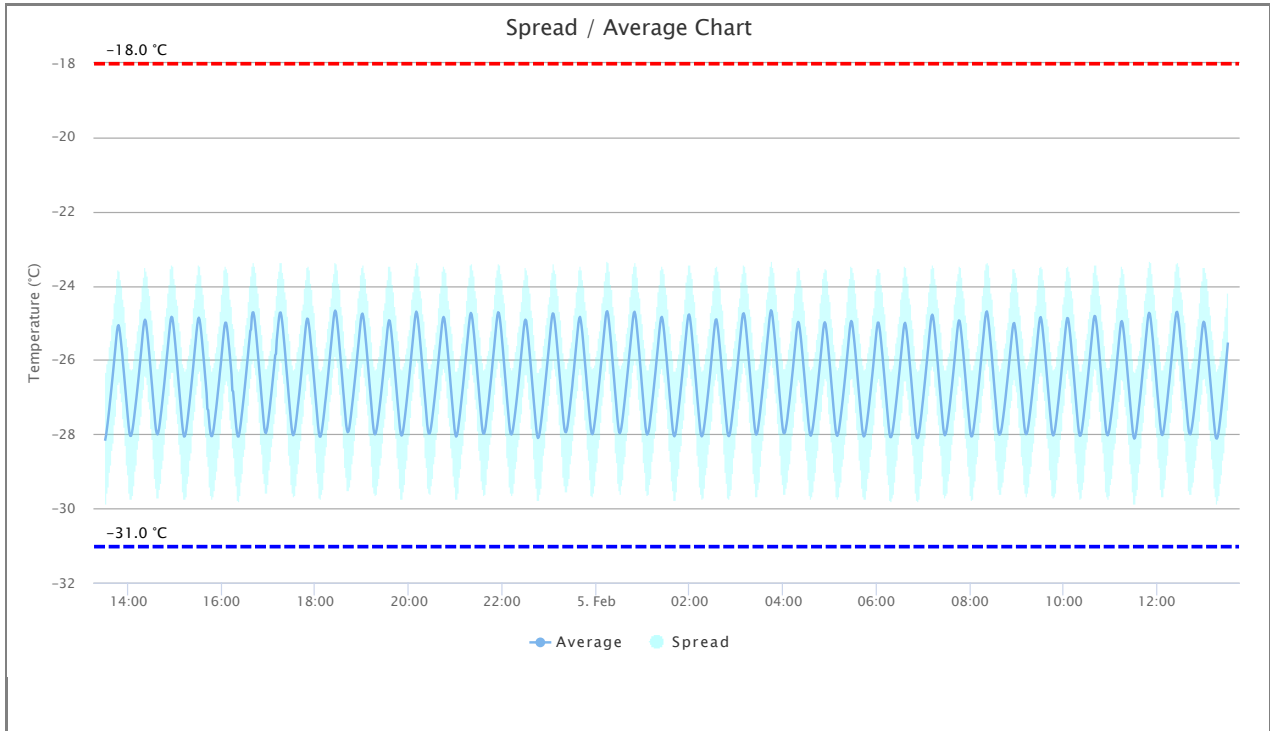
| Lowest value in set of loggers (°C) | |
|-------------------------------------|--------|
| Min | -29.90 |
| Max | -25.87 |
| Avg | -28.04 |
| Spread | 3.02 |
| MKT | -27.94 |
| Std | 0.93 |
| PASS | |

| Highest value in set of loggers (°C) | |
|--------------------------------------|--------|
| Min | -26.36 |
| Max | -23.33 |
| Avg | -24.94 |
| Spread | 4.15 |
| MKT | -24.87 |
| Std | 1.23 |
| PASS | |

| Average value of loggers (°C) | |
|-------------------------------|--------|
| Min | -28.16 |
| Max | -24.64 |
| Avg | -26.49 |
| Spread | 3.52 |
| MKT | -26.40 |
| Std | 1.06 |
| PASS | |

1.2. Dispersion Chart

The dispersion chart shows the total temperature range at any given time, a small spread indicates good uniformity. The average line is the calculated average of all mapping loggers. The position of the average line, compared to the spread, indicates if there is fluctuation between loggers.



2. Data Overview

2.1. Mapping Loggers

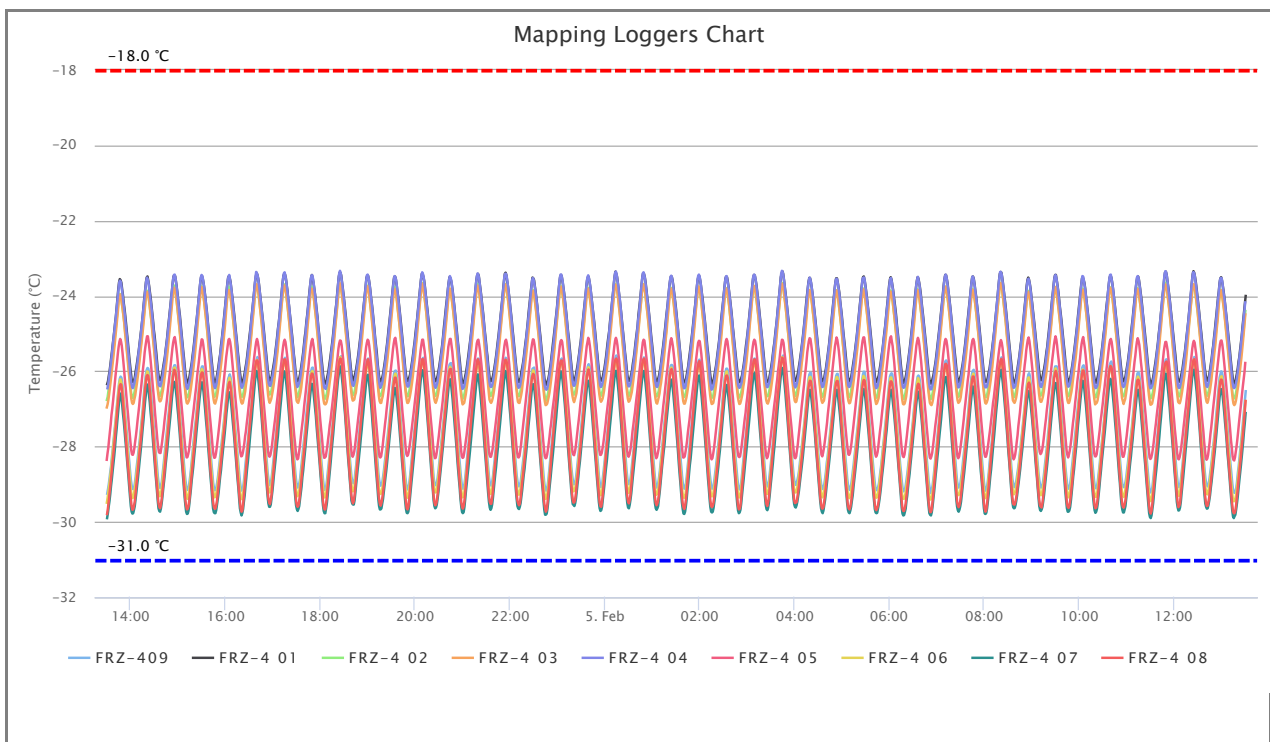
| # | Logger Name | Serial | Min (°C) | Max (°C) | Avg (°C) | Pass / Fail | Spread (°C) | MKT (°C) | Std (°C) | # Events |
|------|-------------|----------------|----------|----------|----------|-------------|-------------|----------|----------|----------|
| T 01 | FRZ-4 09 | 10:0F:9D:98:A3 | -29.25 | -25.58 | -27.48 | PASS | 3.67 | -27.39 | 1.10 | 1441 |
| T 02 | FRZ-4 01 | 10:0F:9F:07:D1 | -26.36 | -23.34 | -24.94 | PASS | 3.02 | -24.87 | 0.93 | 1441 |
| T 03 | FRZ-4 02 | 10:0F:9F:1C:52 | -26.79 | -23.65 | -25.30 | PASS | 3.14 | -25.22 | 0.96 | 1441 |
| T 04 | FRZ-4 03 | 10:0F:9D:F6:81 | -26.96 | -23.66 | -25.41 | PASS | 3.30 | -25.33 | 1.01 | 1441 |
| T 05 | FRZ-4 04 | 10:0F:9E:29:3F | -26.49 | -23.33 | -25.01 | PASS | 3.16 | -24.94 | 0.98 | 1440 |
| T 06 | FRZ-4 05 | 10:0F:9E:68:B9 | -28.37 | -25.07 | -26.74 | PASS | 3.30 | -26.66 | 1.02 | 1441 |
| T 07 | FRZ-4 06 | 10:0F:9F:16:E6 | -29.49 | -25.62 | -27.65 | PASS | 3.87 | -27.55 | 1.13 | 1441 |
| T 08 | FRZ-4 07 | 10:0F:9E:AA:00 | -29.90 | -25.87 | -28.04 | PASS | 4.03 | -27.94 | 1.15 | 1441 |
| T 09 | FRZ-4 08 | 10:0F:9F:DE:EB | -29.79 | -25.64 | -27.81 | PASS | 4.15 | -27.69 | 1.23 | 1441 |

2.2. Outside Loggers

| # | Logger Name | Serial | Min (°C) | Max (°C) | Avg (°C) | Spread (°C) | MKT (°C) | Std (°C) | # Events |
|------|-------------------|----------------|----------|----------|----------|-------------|----------|----------|----------|
| T 10 | Ambient Reference | 10:0F:A0:D2:86 | 13.23 | 14.60 | 14.07 | 1.37 | 14.07 | 0.25 | 1441 |

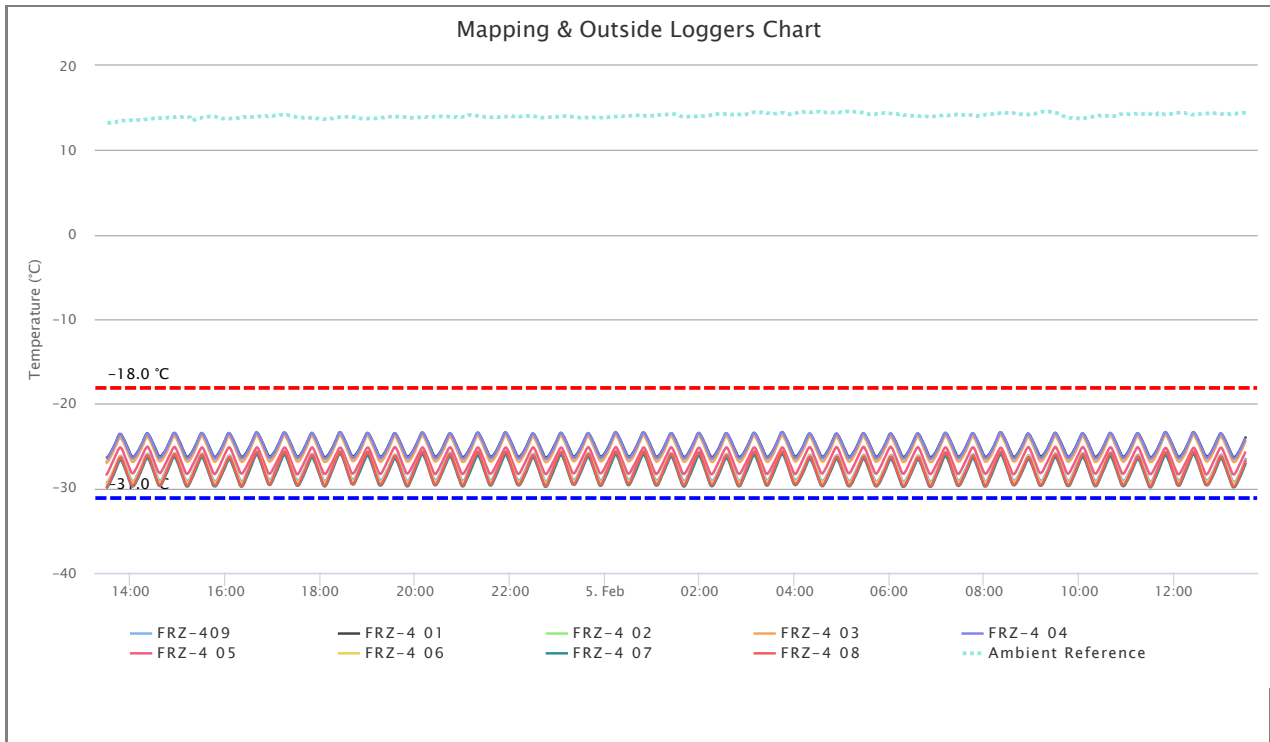
2.3. Chart - Mapping Loggers

This chart shows all loggers included in the mapping.



2.4. Chart - Mapping & Outside Loggers

This chart shows all mapping and outside loggers and can help to identify the correlation between the outside and mapping temperature.



3. Mapping Analysis

3.1. High Temperature Excursions

The high temperature excursions identify the loggers which have a deviation above the upper mapping limit.

3.1.1. Excursions

No high temperature excursions during the mapping.

3.2. Low Temperature Excursions

The low temperature excursions identify the loggers which have a deviation below the lower mapping limit.

3.2.1. Excursions

No low temperature excursions during the mapping.

3.3. Hot Spots

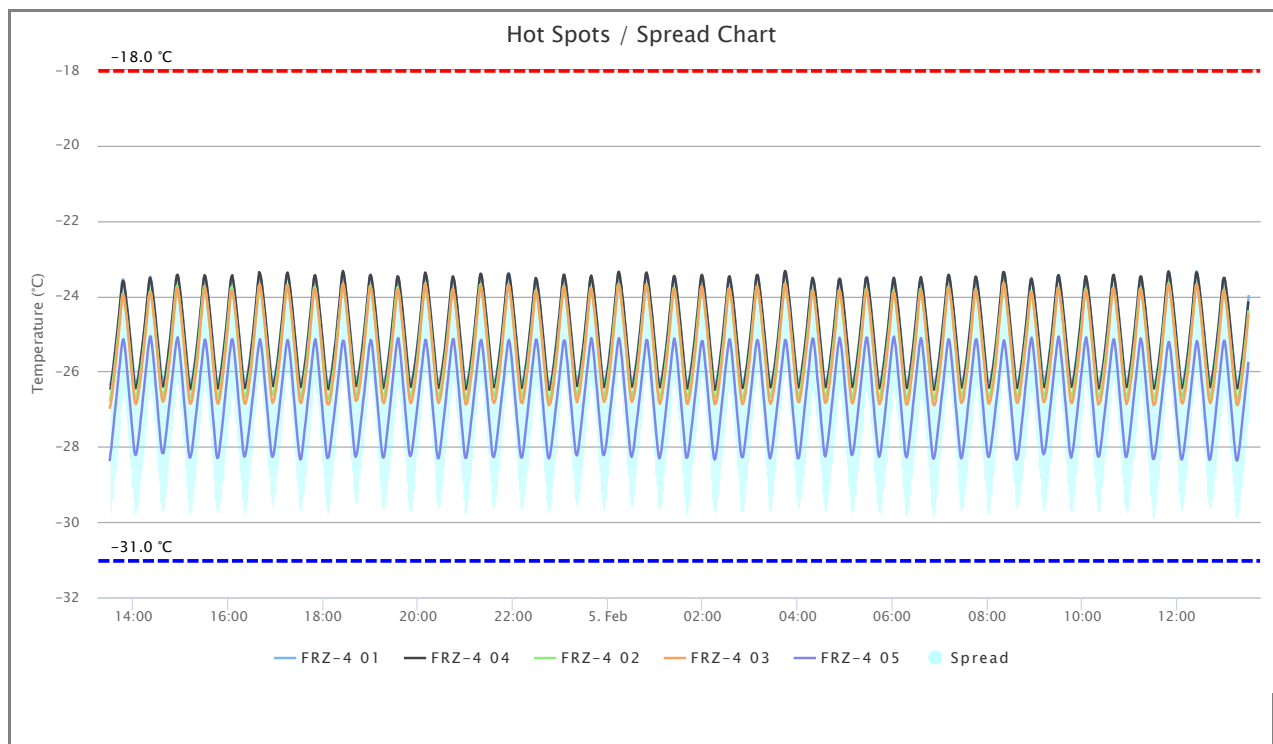
Hot Spots are used to find the hottest locations and can be identified in three different ways: Maximum, Average and Mean Kinetic Temperature. The Hot Spots can be different for each of these variables.

3.3.1. Data

| # | Max (°C) | Max Date Time | Avg (°C) | MKT (°C) |
|---|-------------------|---------------------|-------------------|-------------------|
| 1 | -23.33 (FRZ-4 04) | 04/02/2020 18:25:03 | -24.94 (FRZ-4 01) | -24.87 (FRZ-4 01) |
| 2 | -23.34 (FRZ-4 01) | 05/02/2020 03:44:37 | -25.01 (FRZ-4 04) | -24.94 (FRZ-4 04) |
| 3 | -23.65 (FRZ-4 02) | 04/02/2020 20:09:12 | -25.30 (FRZ-4 02) | -25.22 (FRZ-4 02) |
| 4 | -23.66 (FRZ-4 03) | 04/02/2020 18:25:08 | -25.41 (FRZ-4 03) | -25.33 (FRZ-4 03) |
| 5 | -25.07 (FRZ-4 05) | 04/02/2020 14:21:02 | -26.74 (FRZ-4 05) | -26.66 (FRZ-4 05) |

3.3.2. Chart

This chart shows the loggers that are identified as Hot Spot, the transparent layer indicates the total spread for all loggers.



3.4. Cold Spots

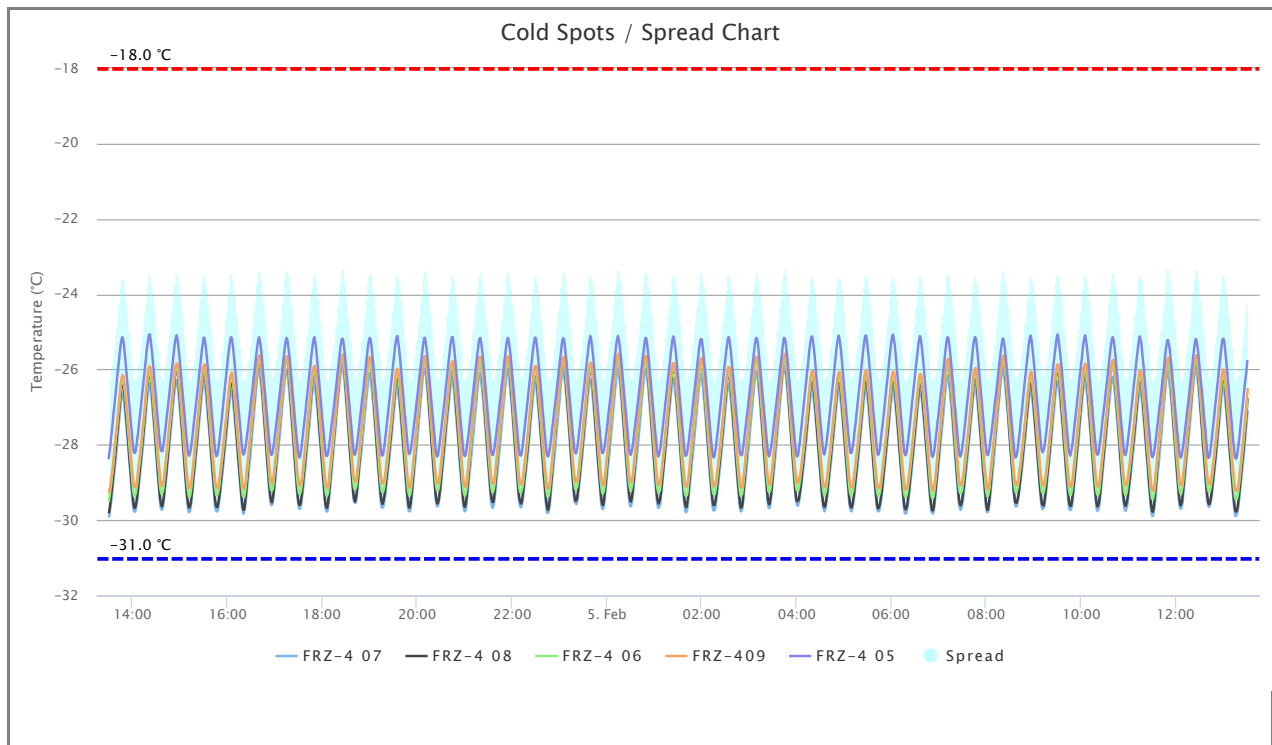
Cold Spots are used to find the coldest locations and can be identified in three different ways: Maximum, Average and Mean Kinetic Temperature. The Cold Spots can be different for each of these variables.

3.4.1. Data

| # | Min (°C) | Min Date Time | Avg (°C) | MKT (°C) |
|---|-------------------|---------------------|-------------------|-------------------|
| 1 | -29.90 (FRZ-4 07) | 04/02/2020 13:30:28 | -28.04 (FRZ-4 07) | -27.94 (FRZ-4 07) |
| 2 | -29.79 (FRZ-4 08) | 04/02/2020 13:30:27 | -27.81 (FRZ-4 08) | -27.69 (FRZ-4 08) |
| 3 | -29.49 (FRZ-4 06) | 04/02/2020 13:30:08 | -27.65 (FRZ-4 06) | -27.55 (FRZ-4 06) |
| 4 | -29.25 (FRZ-4 09) | 04/02/2020 13:30:36 | -27.48 (FRZ-4 09) | -27.39 (FRZ-4 09) |
| 5 | -28.37 (FRZ-4 05) | 05/02/2020 13:16:04 | -26.74 (FRZ-4 05) | -26.66 (FRZ-4 05) |

3.4.2. Chart

This chart shows the loggers that are identified as Cold Spot, the transparent layer indicates the total spread for all loggers.



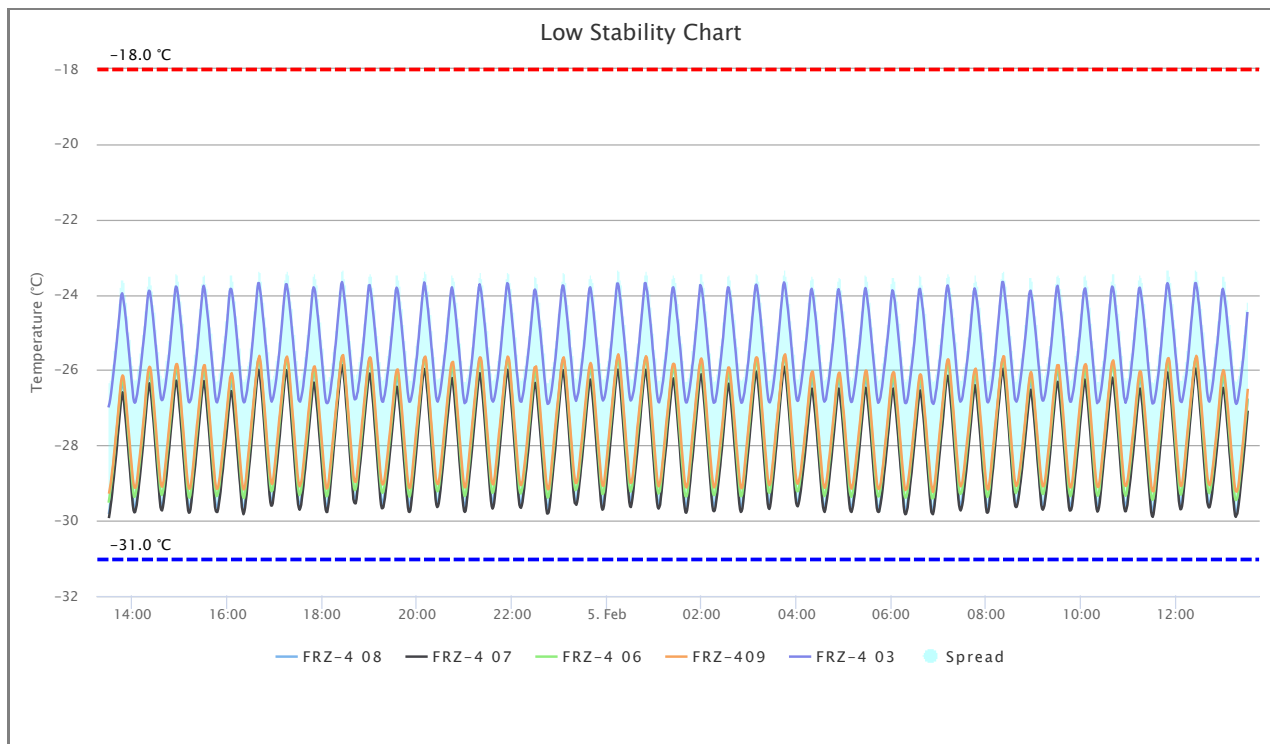
3.5. Stability Spots

3.5.1. Data

| # | Low Stability - Spread (°C) | High Stability - Spread (°C) |
|---|-----------------------------|------------------------------|
| 1 | 4.15 (FRZ-4 08) | 3.02 (FRZ-4 01) |
| 2 | 4.03 (FRZ-4 07) | 3.14 (FRZ-4 02) |
| 3 | 3.87 (FRZ-4 06) | 3.16 (FRZ-4 04) |
| 4 | 3.67 (FRZ-4 09) | 3.30 (FRZ-4 03) |
| 5 | 3.30 (FRZ-4 03) | 3.30 (FRZ-4 05) |

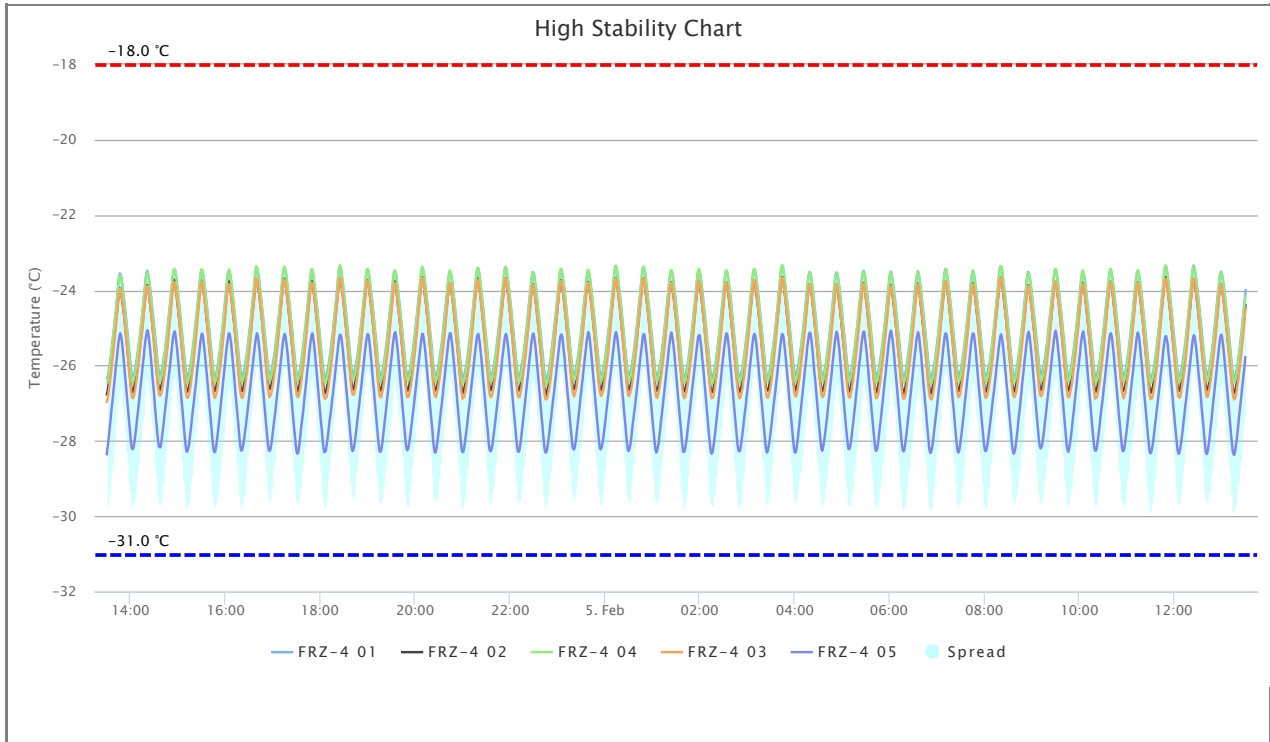
3.5.2. Chart - Low Stability

This chart shows the loggers with the lowest stability (highest spread).



3.5.3. Chart - High Stability

This chart shows the loggers with the highest stability (lowest spread).



4. Floor Plan

4.1. Floor Plan 1: Freezer 4

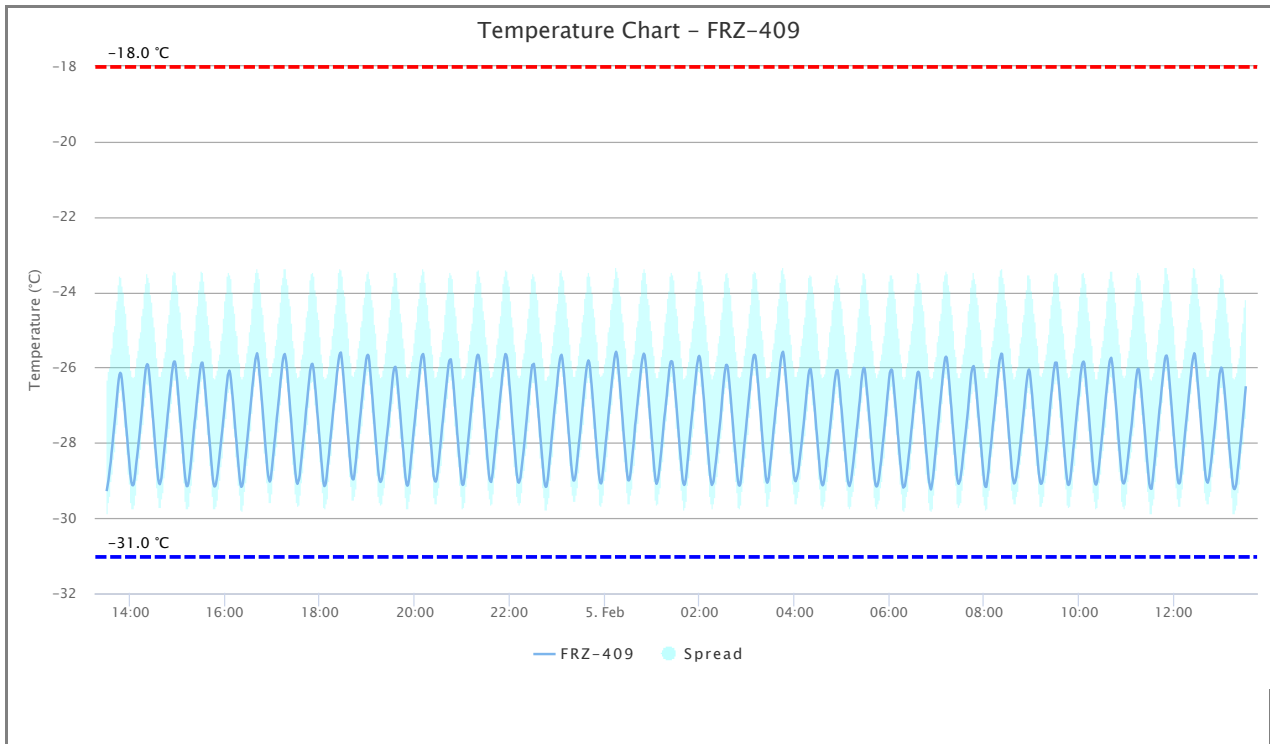


5. Certificate Overview

| Logger Name | Serial | Type | Calibrated At | Recalibration At | Temp 1 | Temp 2 | Temp 3 |
|-------------------|----------------|------------|---------------|------------------|--------|--------|--------|
| FRZ-4 09 | 10:0F:9D:98:A3 | Accredited | 28/01/2020 | 28/01/2021 | -40 °C | 25 °C | 70 °C |
| FRZ-4 01 | 10:0F:9F:07:D1 | Accredited | 28/01/2020 | 28/01/2021 | -40 °C | 25 °C | 70 °C |
| FRZ-4 02 | 10:0F:9F:1C:52 | Accredited | 28/01/2020 | 28/01/2021 | -40 °C | 25 °C | 70 °C |
| FRZ-4 03 | 10:0F:9D:F6:81 | Accredited | 28/01/2020 | 28/01/2021 | -40 °C | 25 °C | 70 °C |
| FRZ-4 04 | 10:0F:9E:29:3F | Accredited | 28/01/2020 | 28/01/2021 | -40 °C | 25 °C | 70 °C |
| FRZ-4 05 | 10:0F:9E:68:B9 | Accredited | 28/01/2020 | 28/01/2021 | -40 °C | 25 °C | 70 °C |
| FRZ-4 06 | 10:0F:9F:16:E6 | Accredited | 28/01/2020 | 28/01/2021 | -40 °C | 25 °C | 70 °C |
| FRZ-4 07 | 10:0F:9E:AA:00 | Accredited | 28/01/2020 | 28/01/2021 | -40 °C | 25 °C | 70 °C |
| FRZ-4 08 | 10:0F:9F:DE:EB | Accredited | 28/01/2020 | 28/01/2021 | -40 °C | 25 °C | 70 °C |
| Ambient Reference | 10:0F:A0:D2:86 | Accredited | 28/01/2020 | 28/01/2021 | -40 °C | 25 °C | 70 °C |

6. Logger Analysis

T 01 - FRZ-4 09 (10:0F:9D:98:A3)



Logger Details

| Min (°C) | Max (°C) | Avg (°C) | Spread (°C) | Std (°C) | MKT (°C) |
|----------|----------|----------|-------------|----------|----------|
| -29.25 | -25.58 | -27.48 | 3.67 | 1.10 | -27.39 |

Logger Data

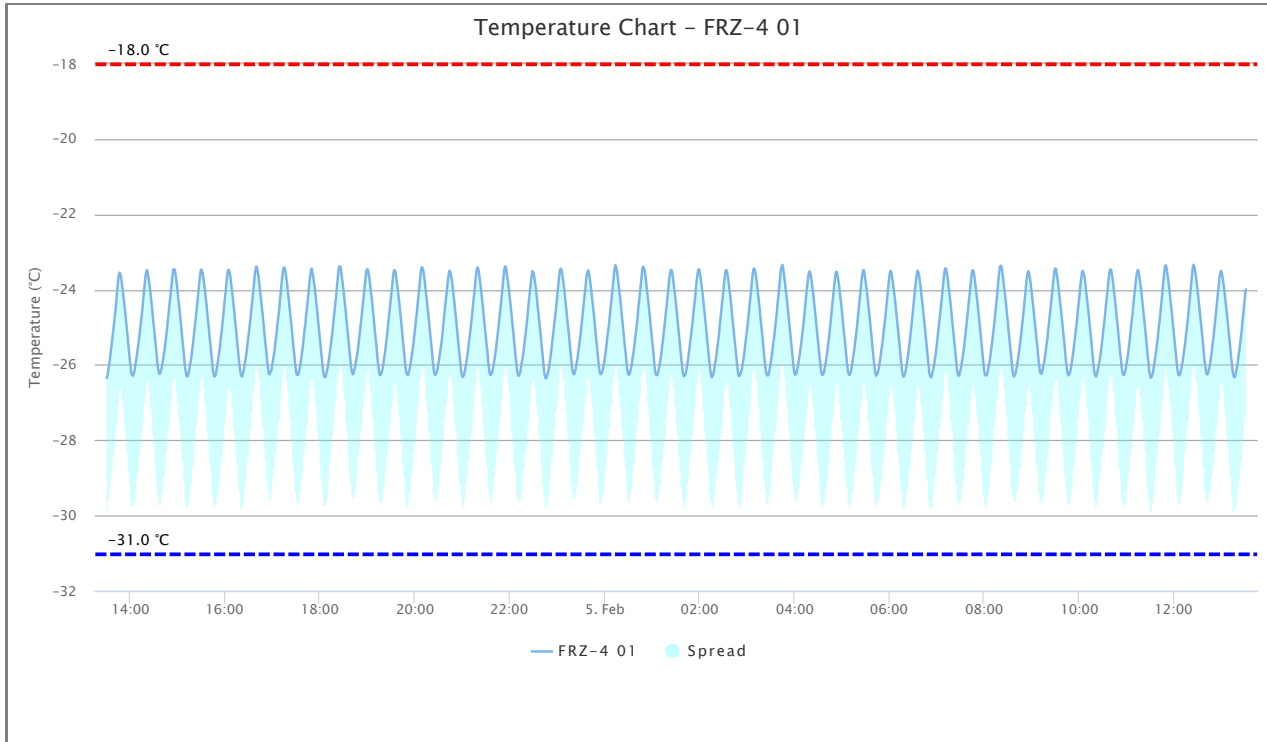
| Date Time | +0m | +1m | +2m | +3m | +4m | +5m | +6m | +7m | +8m | +9m |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 04/02/2020 13:30:36 | -29.25 | -29.13 | -29.00 | -28.83 | -28.65 | -28.50 | -28.26 | -28.07 | -27.84 | -27.63 |
| 04/02/2020 13:40:36 | -27.42 | -27.21 | -26.97 | -26.75 | -26.51 | -26.32 | -26.19 | -26.14 | -26.17 | -26.31 |
| 04/02/2020 13:50:37 | -26.52 | -26.74 | -26.97 | -27.22 | -27.47 | -27.69 | -27.93 | -28.20 | -28.42 | -28.67 |
| 04/02/2020 14:00:36 | -28.89 | -29.04 | -29.12 | -29.13 | -29.10 | -28.97 | -28.80 | -28.59 | -28.41 | -28.23 |
| 04/02/2020 14:10:36 | -28.03 | -27.85 | -27.64 | -27.42 | -27.21 | -26.99 | -26.71 | -26.47 | -26.26 | -26.06 |
| 04/02/2020 14:20:36 | -25.96 | -25.91 | -25.93 | -26.05 | -26.25 | -26.49 | -26.75 | -26.99 | -27.26 | -27.50 |
| 04/02/2020 14:30:36 | -27.76 | -28.04 | -28.29 | -28.53 | -28.78 | -28.97 | -29.07 | -29.10 | -29.03 | -28.94 |
| 04/02/2020 14:40:36 | -28.74 | -28.54 | -28.33 | -28.11 | -27.91 | -27.69 | -27.48 | -27.25 | -27.06 | -26.83 |
| 04/02/2020 14:50:36 | -26.64 | -26.43 | -26.20 | -26.05 | -25.90 | -25.84 | -25.84 | -25.93 | -26.16 | -26.38 |
| 04/02/2020 15:00:36 | -26.63 | -26.88 | -27.15 | -27.39 | -27.64 | -27.91 | -28.14 | -28.43 | -28.69 | -28.90 |
| 04/02/2020 15:10:36 | -29.06 | -29.15 | -29.15 | -29.09 | -28.95 | -28.78 | -28.58 | -28.37 | -28.14 | -27.90 |
| 04/02/2020 15:20:36 | -27.69 | -27.46 | -27.30 | -27.06 | -26.85 | -26.65 | -26.44 | -26.25 | -26.07 | -25.93 |
| 04/02/2020 15:30:36 | -25.87 | -25.87 | -26.02 | -26.21 | -26.45 | -26.71 | -26.95 | -27.21 | -27.46 | -27.74 |
| 04/02/2020 15:40:36 | -27.97 | -28.22 | -28.48 | -28.71 | -28.96 | -29.09 | -29.16 | -29.15 | -29.09 | -28.96 |
| 04/02/2020 15:50:36 | -28.82 | -28.63 | -28.44 | -28.24 | -28.05 | -27.85 | -27.67 | -27.45 | -27.25 | -27.04 |
| 04/02/2020 16:00:36 | -26.82 | -26.58 | -26.40 | -26.20 | -26.14 | -26.08 | -26.16 | -26.32 | -26.55 | -26.77 |
| 04/02/2020 16:10:36 | -27.00 | -27.26 | -27.52 | -27.77 | -27.99 | -28.24 | -28.49 | -28.73 | -28.94 | -29.10 |

| Date Time | +0m | +1m | +2m | +3m | +4m | +5m | +6m | +7m | +8m | +9m |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 04/02/2020 16:20:36 | -29.17 | -29.15 | -29.07 | -28.90 | -28.68 | -28.44 | -28.25 | -28.03 | -27.83 | -27.61 |
| 04/02/2020 16:30:37 | -27.38 | -27.18 | -26.96 | -26.75 | -26.51 | -26.33 | -26.12 | -25.93 | -25.77 | -25.69 |
| 04/02/2020 16:40:37 | -25.62 | -25.72 | -25.87 | -26.16 | -26.37 | -26.62 | -26.87 | -27.12 | -27.39 | -27.67 |
| 04/02/2020 16:50:36 | -27.95 | -28.20 | -28.44 | -28.70 | -28.87 | -28.97 | -29.03 | -28.99 | -28.82 | -28.63 |
| 04/02/2020 17:00:36 | -28.42 | -28.22 | -27.98 | -27.80 | -27.56 | -27.33 | -27.15 | -26.93 | -26.74 | -26.50 |
| 04/02/2020 17:10:37 | -26.29 | -26.11 | -25.89 | -25.75 | -25.67 | -25.64 | -25.73 | -25.87 | -26.08 | -26.34 |
| 04/02/2020 17:20:36 | -26.61 | -26.86 | -27.15 | -27.37 | -27.67 | -27.92 | -28.19 | -28.43 | -28.70 | -28.90 |
| 04/02/2020 17:30:36 | -29.04 | -29.09 | -29.03 | -28.97 | -28.85 | -28.63 | -28.44 | -28.22 | -28.01 | -27.82 |
| 04/02/2020 17:40:37 | -27.61 | -27.37 | -27.12 | -26.94 | -26.72 | -26.50 | -26.30 | -26.09 | -25.99 | -25.91 |
| 04/02/2020 17:50:36 | -25.90 | -25.99 | -26.16 | -26.41 | -26.63 | -26.88 | -27.16 | -27.39 | -27.65 | -27.90 |
| 04/02/2020 18:00:37 | -28.14 | -28.41 | -28.64 | -28.88 | -29.07 | -29.15 | -29.13 | -29.06 | -28.89 | -28.68 |
| 04/02/2020 18:10:36 | -28.48 | -28.29 | -28.04 | -27.84 | -27.63 | -27.42 | -27.21 | -26.99 | -26.81 | -26.60 |
| 04/02/2020 18:20:36 | -26.38 | -26.16 | -25.99 | -25.81 | -25.68 | -25.62 | -25.60 | -25.75 | -25.96 | -26.20 |
| 04/02/2020 18:30:37 | -26.46 | -26.73 | -26.99 | -27.25 | -27.52 | -27.79 | -28.04 | -28.33 | -28.57 | -28.80 |
| 04/02/2020 18:40:36 | -28.93 | -28.97 | -28.97 | -28.86 | -28.65 | -28.48 | -28.24 | -28.01 | -27.81 | -27.60 |
| 04/02/2020 18:50:36 | -27.37 | -27.19 | -26.95 | -26.77 | -26.53 | -26.34 | -26.13 | -25.96 | -25.78 | -25.69 |
| 04/02/2020 19:00:36 | -25.66 | -25.69 | -25.85 | -26.09 | -26.33 | -26.59 | -26.85 | -27.14 | -27.39 | -27.67 |
| 04/02/2020 19:10:36 | -27.92 | -28.19 | -28.43 | -28.70 | -28.88 | -29.00 | -29.04 | -29.01 | -28.94 | -28.79 |
| 04/02/2020 19:20:36 | -28.63 | -28.43 | -28.26 | -28.05 | -27.85 | -27.67 | -27.48 | -27.25 | -27.05 | -26.85 |
| 04/02/2020 19:30:36 | -26.61 | -26.38 | -26.18 | -26.05 | -25.99 | -25.98 | -26.08 | -26.27 | -26.50 | -26.75 |
| 04/02/2020 19:40:37 | -26.99 | -27.23 | -27.51 | -27.76 | -28.03 | -28.25 | -28.52 | -28.78 | -28.97 | -29.10 |
| 04/02/2020 19:50:37 | -29.14 | -29.11 | -28.98 | -28.80 | -28.57 | -28.35 | -28.14 | -27.91 | -27.69 | -27.49 |
| 04/02/2020 20:00:36 | -27.29 | -27.07 | -26.86 | -26.64 | -26.45 | -26.23 | -26.01 | -25.86 | -25.71 | -25.66 |
| 04/02/2020 20:10:37 | -25.64 | -25.74 | -25.99 | -26.23 | -26.47 | -26.73 | -26.99 | -27.29 | -27.52 | -27.81 |
| 04/02/2020 20:20:36 | -28.05 | -28.30 | -28.58 | -28.84 | -28.96 | -29.02 | -29.03 | -28.97 | -28.82 | -28.63 |
| 04/02/2020 20:30:39 | -28.43 | -28.22 | -28.01 | -27.79 | -27.56 | -27.38 | -27.16 | -26.94 | -26.73 | -26.53 |
| 04/02/2020 20:40:39 | -26.32 | -26.12 | -25.93 | -25.82 | -25.79 | -25.78 | -25.93 | -26.16 | -26.38 | -26.64 |
| 04/02/2020 20:50:37 | -26.92 | -27.18 | -27.42 | -27.73 | -27.96 | -28.23 | -28.45 | -28.71 | -28.92 | -29.08 |
| 04/02/2020 21:00:37 | -29.12 | -29.10 | -28.97 | -28.80 | -28.58 | -28.36 | -28.13 | -27.92 | -27.71 | -27.48 |
| 04/02/2020 21:10:37 | -27.27 | -27.05 | -26.83 | -26.64 | -26.43 | -26.21 | -26.00 | -25.85 | -25.71 | -25.66 |
| 04/02/2020 21:20:36 | -25.67 | -25.76 | -25.98 | -26.22 | -26.49 | -26.75 | -27.03 | -27.27 | -27.56 | -27.80 |
| 04/02/2020 21:30:36 | -28.08 | -28.35 | -28.57 | -28.82 | -28.97 | -29.02 | -29.04 | -28.93 | -28.78 | -28.56 |
| 04/02/2020 21:40:36 | -28.36 | -28.13 | -27.92 | -27.69 | -27.52 | -27.30 | -27.09 | -26.86 | -26.66 | -26.47 |
| 04/02/2020 21:50:36 | -26.22 | -26.05 | -25.88 | -25.73 | -25.64 | -25.66 | -25.74 | -25.93 | -26.17 | -26.44 |
| 04/02/2020 22:00:36 | -26.67 | -26.94 | -27.23 | -27.50 | -27.74 | -28.01 | -28.26 | -28.52 | -28.77 | -28.93 |
| 04/02/2020 22:10:36 | -29.04 | -29.06 | -29.01 | -28.93 | -28.75 | -28.57 | -28.39 | -28.21 | -28.00 | -27.79 |
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T 02 - FRZ-4 01 (10:0F:9F:07:D1)



Logger Details

| Min (°C) | Max (°C) | Avg (°C) | Spread (°C) | Std (°C) | MKT (°C) |
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Logger Data

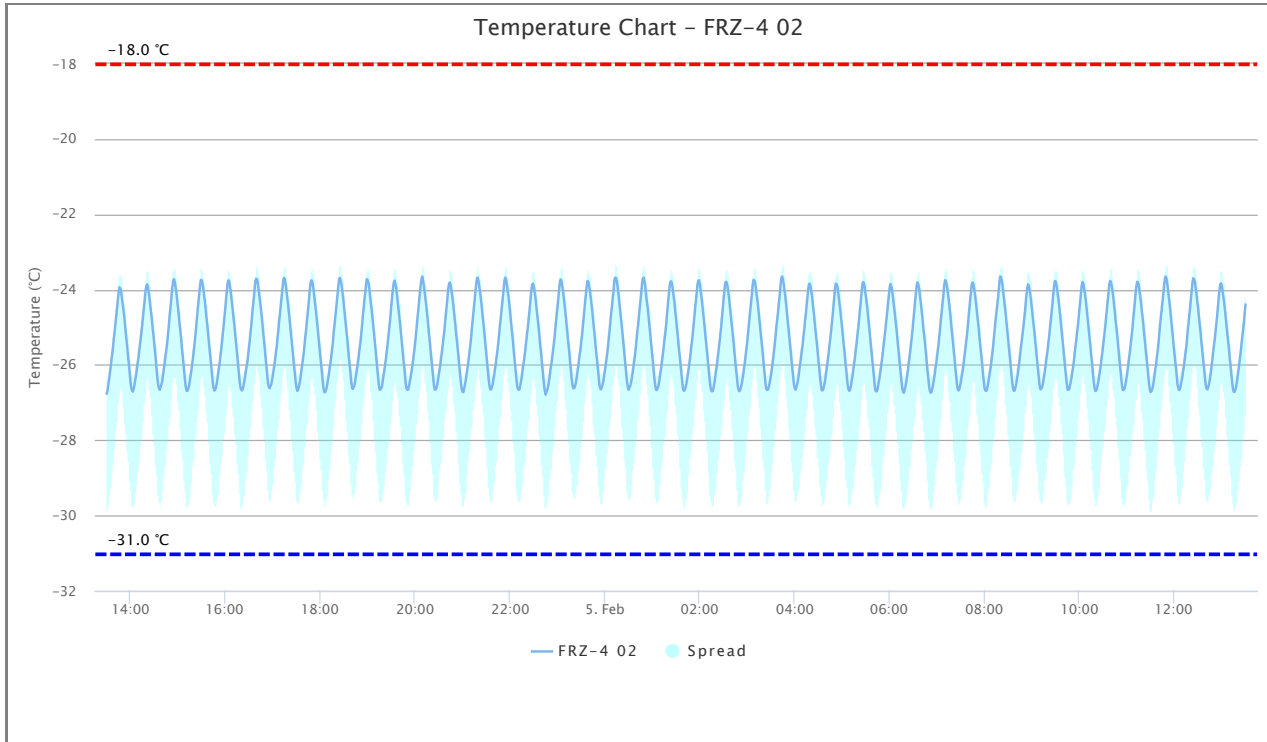
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T 03 - FRZ-4 02 (10:0F:9F:1C:52)



Logger Details

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Logger Data

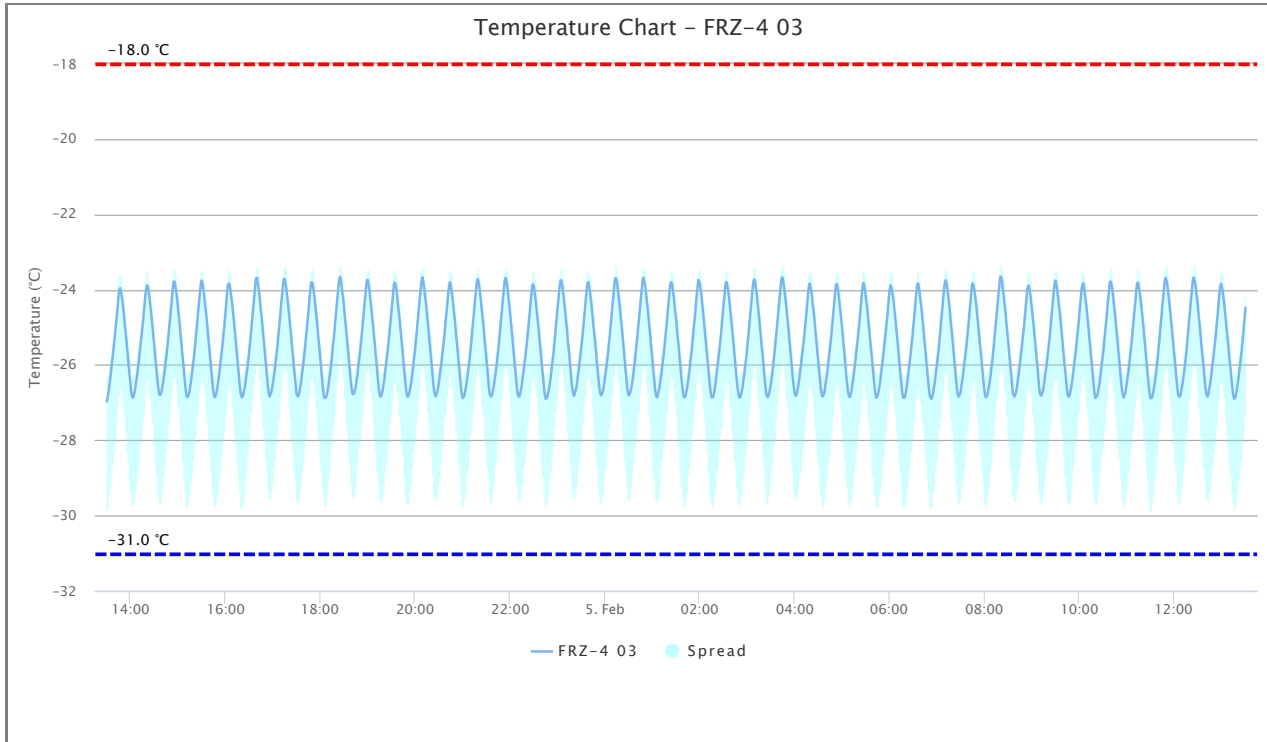
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T 04 - FRZ-4 03 (10:0F:9D:F6:81)



Logger Details

| Min (°C) | Max (°C) | Avg (°C) | Spread (°C) | Std (°C) | MKT (°C) |
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Logger Data

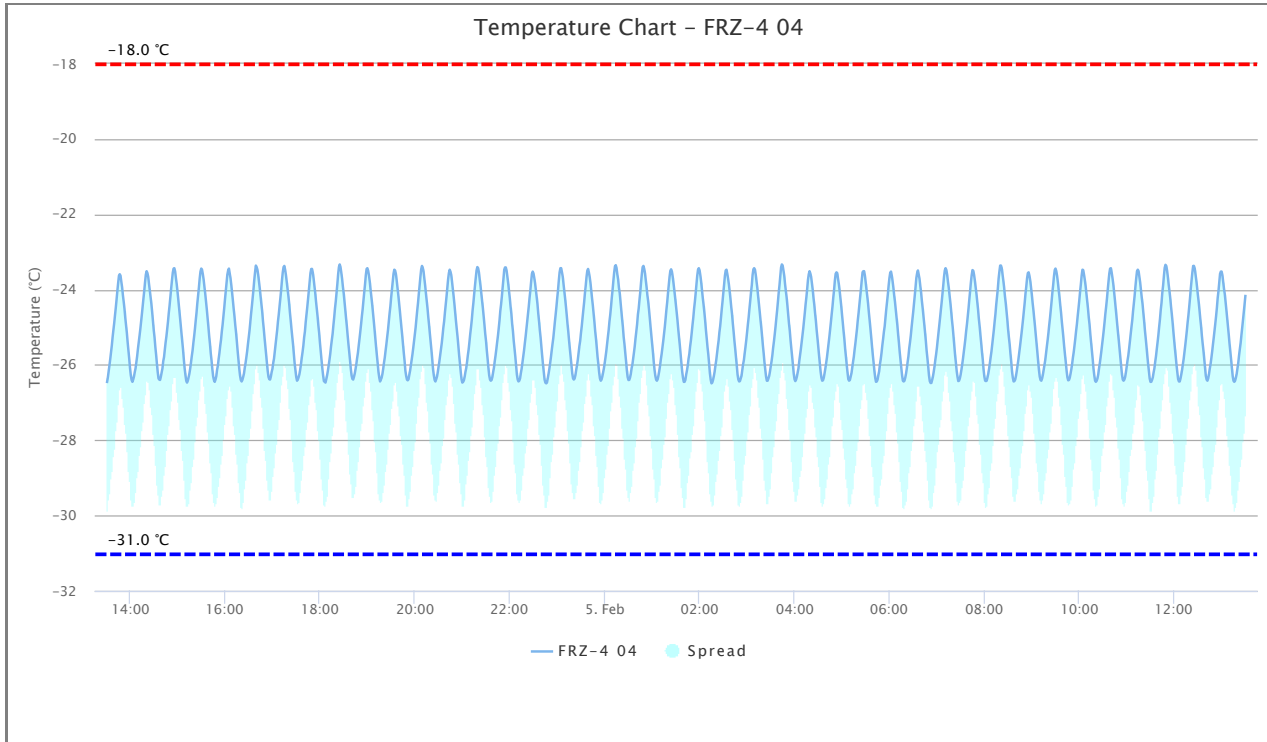
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T 05 - FRZ-4 04 (10:0F:9E:29:3F)



Logger Details

| Min (°C) | Max (°C) | Avg (°C) | Spread (°C) | Std (°C) | MKT (°C) |
|----------|----------|----------|-------------|----------|----------|
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Logger Data

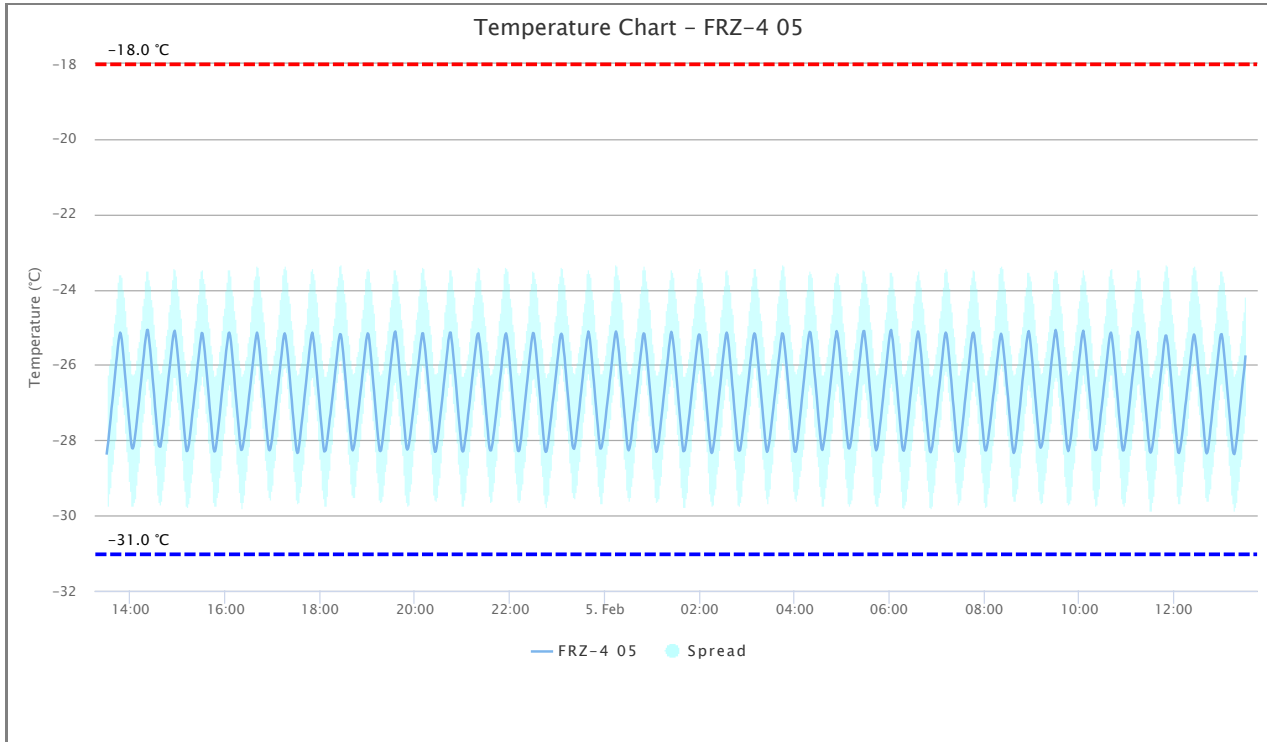
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T 06 - FRZ-4 05 (10:0F:9E:68:B9)



Logger Details

| Min (°C) | Max (°C) | Avg (°C) | Spread (°C) | Std (°C) | MKT (°C) |
|----------|----------|----------|-------------|----------|----------|
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Logger Data

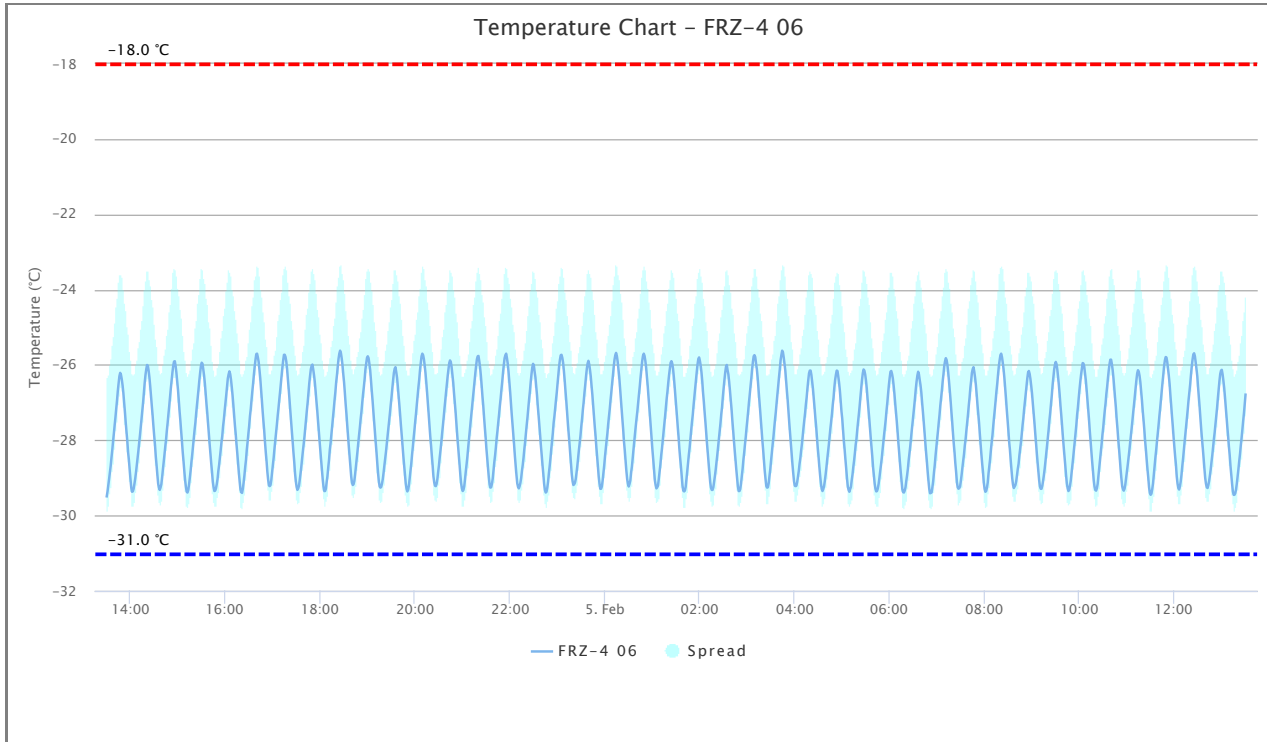
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T 07 - FRZ-4 06 (10:0F:9F:16:E6)



Logger Details

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Logger Data

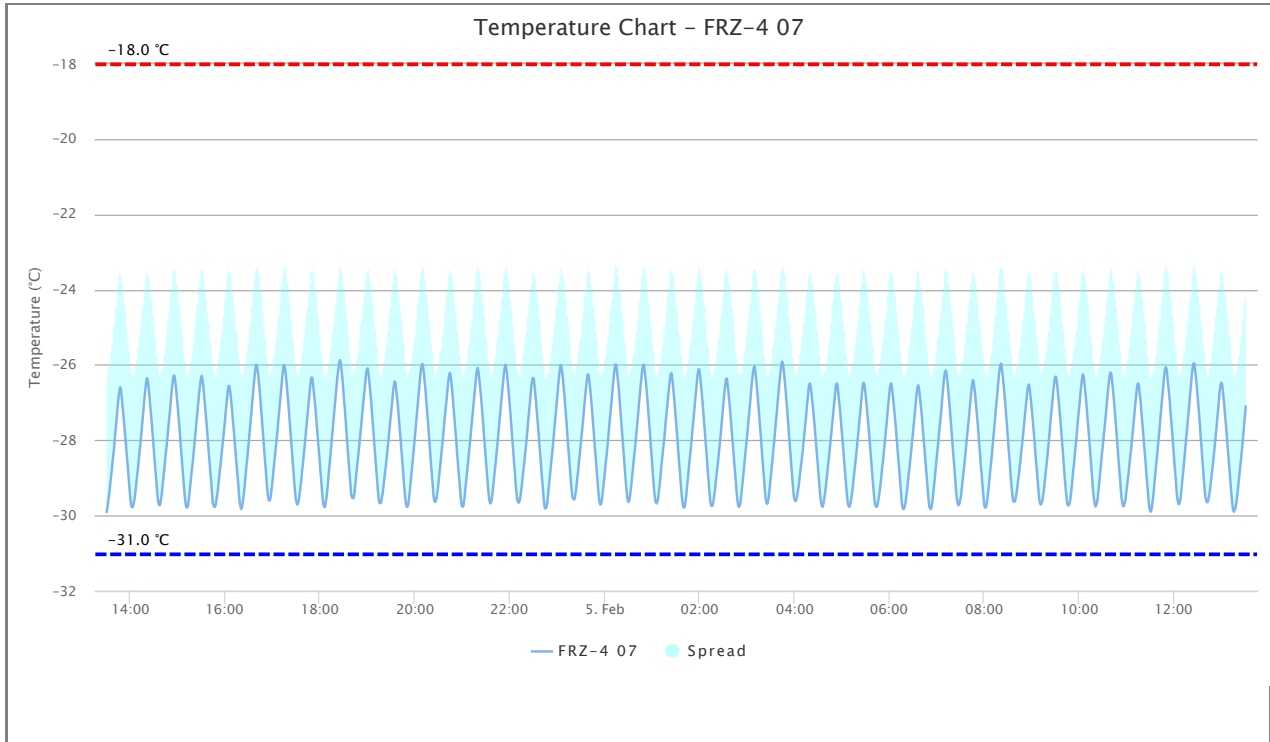
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T 08 - FRZ-4 07 (10:0F:9E:AA:00)



Logger Details

| Min (°C) | Max (°C) | Avg (°C) | Spread (°C) | Std (°C) | MKT (°C) |
|----------|----------|----------|-------------|----------|----------|
| -29.90 | -25.87 | -28.04 | 4.03 | 1.15 | -27.94 |

Logger Data

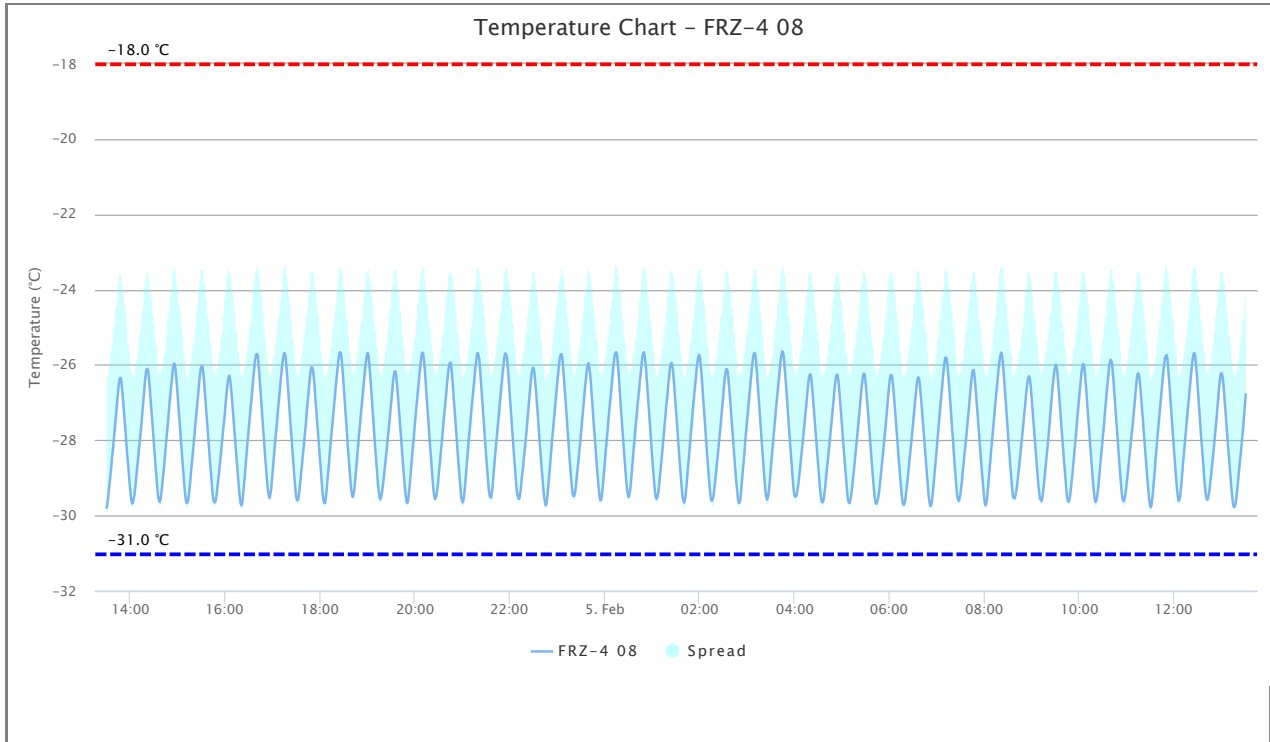
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T 09 - FRZ-4 08 (10:0F:9F:DE:EB)



Logger Details

| Min (°C) | Max (°C) | Avg (°C) | Spread (°C) | Std (°C) | MKT (°C) |
|----------|----------|----------|-------------|----------|----------|
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Logger Data

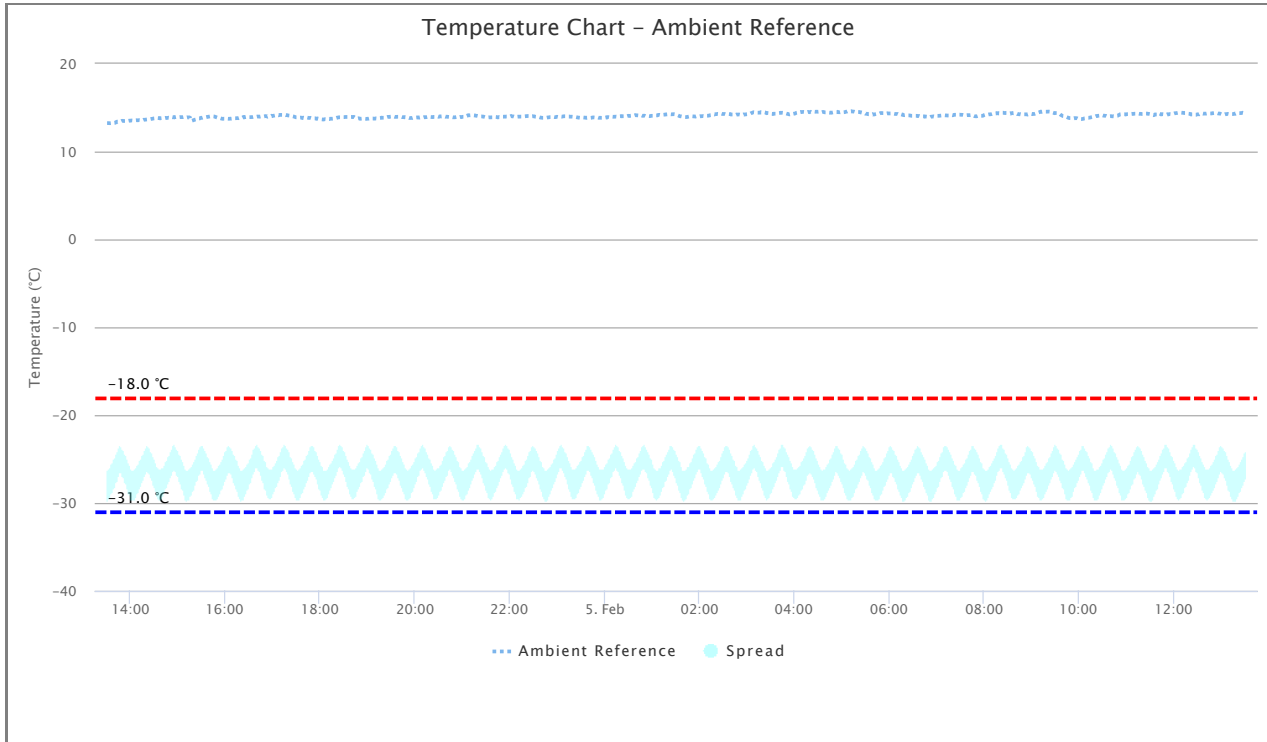
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| 05/02/2020 04:10:30 | -28.03 | -27.80 | -27.59 | -27.37 | -27.14 | -26.93 | -26.67 | -26.46 | -26.32 | -26.25 |
| 05/02/2020 04:20:30 | -26.26 | -26.41 | -26.64 | -26.91 | -27.17 | -27.46 | -27.73 | -28.00 | -28.28 | -28.55 |
| 05/02/2020 04:30:30 | -28.79 | -29.08 | -29.35 | -29.52 | -29.64 | -29.65 | -29.61 | -29.46 | -29.30 | -29.08 |
| 05/02/2020 04:40:30 | -28.86 | -28.65 | -28.46 | -28.25 | -28.04 | -27.81 | -27.59 | -27.36 | -27.14 | -26.92 |
| 05/02/2020 04:50:31 | -26.66 | -26.46 | -26.31 | -26.26 | -26.26 | -26.41 | -26.66 | -26.92 | -27.19 | -27.47 |
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| 05/02/2020 06:10:30 | -28.14 | -28.43 | -28.69 | -28.95 | -29.19 | -29.45 | -29.64 | -29.71 | -29.71 | -29.64 |
| 05/02/2020 06:20:30 | -29.52 | -29.33 | -29.14 | -28.93 | -28.72 | -28.50 | -28.30 | -28.09 | -27.86 | -27.64 |
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| 05/02/2020 06:50:30 | -29.62 | -29.74 | -29.74 | -29.67 | -29.47 | -29.26 | -29.01 | -28.78 | -28.54 | -28.30 |
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| 05/02/2020 07:30:30 | -29.29 | -29.12 | -28.88 | -28.68 | -28.45 | -28.25 | -28.03 | -27.84 | -27.60 | -27.35 |
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| 05/02/2020 07:50:31 | -27.06 | -27.31 | -27.60 | -27.88 | -28.17 | -28.44 | -28.73 | -28.98 | -29.22 | -29.49 |
| 05/02/2020 08:00:31 | -29.65 | -29.73 | -29.68 | -29.52 | -29.30 | -29.06 | -28.79 | -28.55 | -28.28 | -28.06 |
| 05/02/2020 08:10:31 | -27.84 | -27.59 | -27.35 | -27.12 | -26.88 | -26.66 | -26.46 | -26.22 | -25.99 | -25.83 |
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| 05/02/2020 10:40:30 | -25.88 | -25.96 | -26.19 | -26.46 | -26.77 | -27.07 | -27.35 | -27.66 | -27.93 | -28.25 |
| 05/02/2020 10:50:31 | -28.54 | -28.82 | -29.09 | -29.36 | -29.53 | -29.61 | -29.62 | -29.53 | -29.43 | -29.23 |
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| 05/02/2020 11:30:31 | -29.78 | -29.71 | -29.53 | -29.30 | -29.05 | -28.78 | -28.49 | -28.25 | -28.03 | -27.76 |

| Date Time | +0m | +1m | +2m | +3m | +4m | +5m | +6m | +7m | +8m | +9m |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
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| 05/02/2020 12:40:30 | -29.51 | -29.58 | -29.57 | -29.47 | -29.35 | -29.16 | -28.97 | -28.76 | -28.55 | -28.37 |
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| 05/02/2020 13:30:30 | -26.79 | | | | | | | | | |

T 10 - Ambient Reference (10:0F:A0:D2:86)



Logger Details

| Min (°C) | Max (°C) | Avg (°C) | Spread (°C) | Std (°C) | MKT (°C) |
|----------|----------|----------|-------------|----------|----------|
| 13.23 | 14.60 | 14.07 | 1.37 | 0.25 | 14.07 |

Logger Data

| Date Time | +0m | +1m | +2m | +3m | +4m | +5m | +6m | +7m | +8m | +9m |
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| 04/02/2020 13:30:56 | 13.24 | 13.24 | 13.24 | 13.23 | 13.23 | 13.24 | 13.25 | 13.25 | 13.23 | 13.26 |
| 04/02/2020 13:40:55 | 13.27 | 13.34 | 13.34 | 13.41 | 13.41 | 13.42 | 13.45 | 13.44 | 13.48 | 13.50 |
| 04/02/2020 13:50:56 | 13.50 | 13.48 | 13.48 | 13.48 | 13.48 | 13.52 | 13.50 | 13.50 | 13.52 | 13.51 |
| 04/02/2020 14:00:56 | 13.53 | 13.54 | 13.53 | 13.54 | 13.56 | 13.56 | 13.56 | 13.57 | 13.56 | 13.56 |
| 04/02/2020 14:10:56 | 13.57 | 13.58 | 13.57 | 13.56 | 13.58 | 13.58 | 13.62 | 13.62 | 13.63 | 13.64 |
| 04/02/2020 14:20:56 | 13.65 | 13.66 | 13.67 | 13.67 | 13.70 | 13.70 | 13.72 | 13.73 | 13.75 | 13.77 |
| 04/02/2020 14:30:56 | 13.78 | 13.77 | 13.82 | 13.81 | 13.82 | 13.81 | 13.82 | 13.78 | 13.80 | 13.81 |
| 04/02/2020 14:40:56 | 13.81 | 13.81 | 13.83 | 13.82 | 13.84 | 13.82 | 13.83 | 13.84 | 13.86 | 13.85 |
| 04/02/2020 14:50:56 | 13.86 | 13.90 | 13.92 | 13.90 | 13.92 | 13.89 | 13.93 | 13.92 | 13.94 | 13.93 |
| 04/02/2020 15:00:56 | 13.93 | 13.92 | 13.93 | 13.92 | 13.92 | 13.92 | 13.92 | 13.94 | 13.93 | 13.92 |
| 04/02/2020 15:10:56 | 13.88 | 13.90 | 13.89 | 13.89 | 13.89 | 13.84 | 13.52 | 13.51 | 13.54 | 13.56 |
| 04/02/2020 15:20:56 | 13.60 | 13.63 | 13.65 | 13.69 | 13.69 | 13.73 | 13.77 | 13.77 | 13.82 | 13.85 |
| 04/02/2020 15:30:56 | 13.84 | 13.87 | 13.87 | 13.87 | 13.89 | 13.92 | 13.94 | 13.94 | 13.97 | 13.98 |
| 04/02/2020 15:40:56 | 14.00 | 14.00 | 14.01 | 13.99 | 14.01 | 14.00 | 13.98 | 13.94 | 13.92 | 13.87 |
| 04/02/2020 15:50:56 | 13.84 | 13.83 | 13.79 | 13.80 | 13.77 | 13.75 | 13.73 | 13.73 | 13.75 | 13.75 |
| 04/02/2020 16:00:57 | 13.77 | 13.75 | 13.75 | 13.74 | 13.73 | 13.74 | 13.75 | 13.74 | 13.75 | 13.75 |
| 04/02/2020 16:11:01 | 13.75 | 13.79 | 13.79 | 13.80 | 13.80 | 13.81 | 13.80 | 13.83 | 13.86 | 13.84 |
| 04/02/2020 16:20:59 | 13.88 | 13.87 | 13.92 | 13.89 | 13.94 | 13.92 | 13.94 | 13.94 | 13.90 | 13.92 |
| 04/02/2020 16:30:59 | 13.92 | 13.92 | 13.92 | 13.93 | 13.93 | 13.95 | 13.96 | 13.95 | 13.95 | 13.97 |
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| 04/02/2020 16:50:56 | 14.04 | 14.03 | 14.01 | 13.97 | 14.00 | 14.00 | 14.01 | 14.02 | 14.07 | 14.04 |

| Date Time | +0m | +1m | +2m | +3m | +4m | +5m | +6m | +7m | +8m | +9m |
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| 04/02/2020 17:00:56 | 14.07 | 14.09 | 14.10 | 14.12 | 14.10 | 14.13 | 14.15 | 14.13 | 14.17 | 14.17 |
| 04/02/2020 17:10:56 | 14.18 | 14.17 | 14.17 | 14.15 | 14.15 | 14.17 | 14.14 | 14.16 | 14.13 | 14.11 |
| 04/02/2020 17:20:56 | 14.10 | 14.09 | 14.07 | 14.04 | 14.02 | 14.01 | 13.99 | 13.96 | 13.93 | 13.90 |
| 04/02/2020 17:30:56 | 13.90 | 13.88 | 13.86 | 13.85 | 13.86 | 13.87 | 13.85 | 13.82 | 13.86 | 13.84 |
| 04/02/2020 17:40:56 | 13.86 | 13.87 | 13.88 | 13.87 | 13.85 | 13.83 | 13.83 | 13.84 | 13.81 | 13.81 |
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| 04/02/2020 18:10:56 | 13.71 | 13.70 | 13.74 | 13.74 | 13.74 | 13.74 | 13.75 | 13.77 | 13.80 | 13.82 |
| 04/02/2020 18:20:56 | 13.85 | 13.85 | 13.88 | 13.90 | 13.90 | 13.90 | 13.88 | 13.90 | 13.92 | 13.92 |
| 04/02/2020 18:30:56 | 13.92 | 13.94 | 13.94 | 13.94 | 13.94 | 13.94 | 13.95 | 13.96 | 13.95 | 13.95 |
| 04/02/2020 18:40:56 | 13.92 | 13.94 | 13.95 | 13.89 | 13.86 | 13.85 | 13.83 | 13.77 | 13.79 | 13.77 |
| 04/02/2020 18:50:56 | 13.73 | 13.74 | 13.75 | 13.74 | 13.75 | 13.74 | 13.74 | 13.73 | 13.72 | 13.74 |
| 04/02/2020 19:00:55 | 13.74 | 13.75 | 13.77 | 13.77 | 13.77 | 13.77 | 13.77 | 13.75 | 13.75 | 13.75 |
| 04/02/2020 19:10:56 | 13.78 | 13.77 | 13.79 | 13.79 | 13.80 | 13.82 | 13.83 | 13.86 | 13.85 | 13.85 |
| 04/02/2020 19:20:56 | 13.85 | 13.88 | 13.88 | 13.94 | 13.92 | 13.95 | 13.95 | 13.94 | 13.97 | 13.98 |
| 04/02/2020 19:30:56 | 14.00 | 13.98 | 13.97 | 13.98 | 13.95 | 13.95 | 13.95 | 13.96 | 13.96 | 13.96 |
| 04/02/2020 19:40:56 | 13.94 | 13.94 | 13.95 | 13.92 | 13.92 | 13.92 | 13.90 | 13.93 | 13.92 | 13.90 |
| 04/02/2020 19:50:56 | 13.86 | 13.85 | 13.82 | 13.83 | 13.82 | 13.83 | 13.82 | 13.85 | 13.86 | 13.88 |
| 04/02/2020 20:00:56 | 13.89 | 13.88 | 13.89 | 13.87 | 13.89 | 13.86 | 13.88 | 13.90 | 13.88 | 13.89 |
| 04/02/2020 20:10:56 | 13.89 | 13.92 | 13.90 | 13.92 | 13.92 | 13.94 | 13.90 | 13.89 | 13.89 | 13.94 |
| 04/02/2020 20:20:56 | 13.93 | 13.93 | 13.92 | 13.95 | 13.95 | 13.94 | 13.95 | 13.97 | 13.99 | 13.96 |
| 04/02/2020 20:30:56 | 13.97 | 14.01 | 14.01 | 13.99 | 14.00 | 13.99 | 13.99 | 13.99 | 13.96 | 13.97 |
| 04/02/2020 20:40:56 | 13.97 | 13.95 | 13.95 | 13.94 | 13.93 | 13.92 | 13.92 | 13.90 | 13.90 | 13.90 |
| 04/02/2020 20:50:56 | 13.90 | 13.92 | 13.94 | 13.88 | 13.92 | 13.93 | 13.95 | 13.94 | 13.92 | 13.94 |
| 04/02/2020 21:00:56 | 13.96 | 13.96 | 13.95 | 13.94 | 14.00 | 14.04 | 14.12 | 14.14 | 14.13 | 14.13 |
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| 04/02/2020 21:20:56 | 14.03 | 14.01 | 14.01 | 14.00 | 14.00 | 13.98 | 13.98 | 13.95 | 13.92 | 13.94 |
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| 04/02/2020 21:40:56 | 13.95 | 13.95 | 13.94 | 13.92 | 13.89 | 13.90 | 13.94 | 13.93 | 13.94 | 13.97 |
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| 04/02/2020 22:00:56 | 14.01 | 14.05 | 14.01 | 14.00 | 14.00 | 13.97 | 13.97 | 13.97 | 14.00 | 13.97 |
| 04/02/2020 22:10:56 | 13.98 | 13.97 | 13.98 | 13.98 | 13.98 | 14.00 | 14.00 | 14.01 | 14.01 | 14.02 |
| 04/02/2020 22:20:55 | 14.04 | 14.03 | 14.05 | 14.05 | 14.05 | 14.07 | 14.04 | 14.02 | 14.03 | 14.01 |
| 04/02/2020 22:30:56 | 14.01 | 13.98 | 13.96 | 13.95 | 13.93 | 13.94 | 13.93 | 13.90 | 13.87 | 13.86 |
| 04/02/2020 22:40:56 | 13.85 | 13.84 | 13.84 | 13.84 | 13.86 | 13.86 | 13.86 | 13.88 | 13.89 | 13.90 |
| 04/02/2020 22:50:56 | 13.92 | 13.92 | 13.94 | 13.95 | 13.95 | 13.94 | 13.92 | 13.92 | 13.94 | 13.96 |
| 04/02/2020 23:00:56 | 13.94 | 13.96 | 13.97 | 13.98 | 13.98 | 13.97 | 13.99 | 14.01 | 14.02 | 14.02 |
| 04/02/2020 23:10:56 | 14.02 | 14.01 | 14.01 | 14.00 | 14.00 | 13.97 | 13.97 | 13.97 | 13.97 | 13.96 |
| 04/02/2020 23:20:56 | 13.97 | 13.95 | 13.94 | 13.92 | 13.90 | 13.89 | 13.86 | 13.86 | 13.85 | 13.85 |
| 04/02/2020 23:30:56 | 13.88 | 13.87 | 13.88 | 13.87 | 13.87 | 13.85 | 13.86 | 13.83 | 13.84 | 13.84 |
| 04/02/2020 23:40:56 | 13.83 | 13.83 | 13.84 | 13.86 | 13.88 | 13.89 | 13.88 | 13.87 | 13.89 | 13.88 |
| 04/02/2020 23:50:56 | 13.87 | 13.87 | 13.84 | 13.85 | 13.85 | 13.84 | 13.84 | 13.85 | 13.88 | 13.87 |
| 05/02/2020 00:00:56 | 13.87 | 13.89 | 13.87 | 13.92 | 13.92 | 13.90 | 13.92 | 13.94 | 13.94 | 13.97 |
| 05/02/2020 00:10:56 | 13.96 | 13.96 | 13.97 | 13.97 | 13.98 | 13.97 | 13.98 | 14.00 | 14.01 | 14.02 |
| 05/02/2020 00:20:57 | 14.04 | 14.01 | 14.03 | 14.02 | 14.02 | 14.01 | 14.03 | 14.01 | 14.04 | 14.07 |
| 05/02/2020 00:30:56 | 14.07 | 14.05 | 14.08 | 14.09 | 14.10 | 14.11 | 14.13 | 14.12 | 14.15 | 14.13 |
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| 05/02/2020 00:50:55 | 14.07 | 14.03 | 14.03 | 14.03 | 14.04 | 14.04 | 14.03 | 14.04 | 14.07 | 14.07 |
| 05/02/2020 01:00:55 | 14.07 | 14.07 | 14.07 | 14.12 | 14.12 | 14.12 | 14.12 | 14.17 | 14.18 | 14.18 |
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| 05/02/2020 01:40:55 | 13.94 | 13.92 | 13.92 | 13.94 | 13.94 | 13.97 | 13.99 | 14.01 | 14.03 | 14.03 |
| 05/02/2020 01:50:55 | 14.02 | 14.01 | 14.00 | 14.00 | 13.98 | 14.01 | 14.00 | 14.02 | 14.01 | 14.01 |
| 05/02/2020 02:00:55 | 14.03 | 14.01 | 14.03 | 14.03 | 14.05 | 14.04 | 14.04 | 14.05 | 14.08 | 14.08 |
| 05/02/2020 02:10:55 | 14.08 | 14.10 | 14.11 | 14.15 | 14.16 | 14.18 | 14.21 | 14.24 | 14.22 | 14.25 |


| Date Time | +0m | +1m | +2m | +3m | +4m | +5m | +6m | +7m | +8m | +9m |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 05/02/2020 02:20:55 | 14.26 | 14.26 | 14.29 | 14.28 | 14.29 | 14.30 | 14.32 | 14.31 | 14.28 | 14.28 |
| 05/02/2020 02:30:56 | 14.28 | 14.28 | 14.25 | 14.25 | 14.25 | 14.26 | 14.27 | 14.26 | 14.27 | 14.22 |
| 05/02/2020 02:40:55 | 14.22 | 14.22 | 14.19 | 14.19 | 14.21 | 14.18 | 14.22 | 14.21 | 14.22 | 14.22 |
| 05/02/2020 02:50:55 | 14.21 | 14.19 | 14.19 | 14.19 | 14.19 | 14.23 | 14.21 | 14.23 | 14.23 | 14.26 |
| 05/02/2020 03:00:55 | 14.27 | 14.26 | 14.28 | 14.31 | 14.36 | 14.38 | 14.42 | 14.46 | 14.48 | 14.47 |
| 05/02/2020 03:10:55 | 14.44 | 14.43 | 14.42 | 14.42 | 14.43 | 14.43 | 14.43 | 14.49 | 14.48 | 14.45 |
| 05/02/2020 03:20:55 | 14.49 | 14.48 | 14.46 | 14.42 | 14.37 | 14.39 | 14.38 | 14.37 | 14.32 | 14.30 |
| 05/02/2020 03:30:55 | 14.31 | 14.30 | 14.27 | 14.31 | 14.31 | 14.31 | 14.31 | 14.33 | 14.36 | 14.38 |
| 05/02/2020 03:40:55 | 14.39 | 14.40 | 14.42 | 14.41 | 14.42 | 14.41 | 14.39 | 14.34 | 14.33 | 14.33 |
| 05/02/2020 03:50:55 | 14.30 | 14.29 | 14.25 | 14.23 | 14.25 | 14.31 | 14.32 | 14.29 | 14.31 | 14.31 |
| 05/02/2020 04:00:55 | 14.33 | 14.38 | 14.42 | 14.44 | 14.51 | 14.48 | 14.49 | 14.51 | 14.49 | 14.51 |
| 05/02/2020 04:10:55 | 14.51 | 14.52 | 14.51 | 14.49 | 14.49 | 14.48 | 14.51 | 14.51 | 14.48 | 14.48 |
| 05/02/2020 04:20:55 | 14.52 | 14.48 | 14.49 | 14.53 | 14.55 | 14.54 | 14.53 | 14.54 | 14.54 | 14.53 |
| 05/02/2020 04:30:55 | 14.54 | 14.56 | 14.51 | 14.48 | 14.48 | 14.51 | 14.51 | 14.48 | 14.46 | 14.46 |
| 05/02/2020 04:40:55 | 14.45 | 14.45 | 14.44 | 14.43 | 14.42 | 14.44 | 14.42 | 14.44 | 14.46 | 14.46 |
| 05/02/2020 04:50:55 | 14.48 | 14.48 | 14.48 | 14.48 | 14.52 | 14.48 | 14.48 | 14.47 | 14.49 | 14.45 |
| 05/02/2020 05:00:55 | 14.47 | 14.47 | 14.48 | 14.49 | 14.52 | 14.55 | 14.56 | 14.60 | 14.57 | 14.57 |
| 05/02/2020 05:10:55 | 14.59 | 14.60 | 14.56 | 14.56 | 14.55 | 14.54 | 14.51 | 14.52 | 14.52 | 14.49 |
| 05/02/2020 05:20:56 | 14.49 | 14.51 | 14.49 | 14.45 | 14.46 | 14.44 | 14.43 | 14.40 | 14.37 | 14.31 |
| 05/02/2020 05:30:56 | 14.31 | 14.29 | 14.30 | 14.25 | 14.25 | 14.24 | 14.25 | 14.23 | 14.26 | 14.22 |
| 05/02/2020 05:40:55 | 14.22 | 14.24 | 14.27 | 14.29 | 14.31 | 14.31 | 14.33 | 14.34 | 14.38 | 14.39 |
| 05/02/2020 05:50:56 | 14.38 | 14.38 | 14.38 | 14.40 | 14.38 | 14.39 | 14.34 | 14.36 | 14.34 | 14.34 |
| 05/02/2020 06:00:55 | 14.34 | 14.34 | 14.33 | 14.32 | 14.31 | 14.31 | 14.29 | 14.28 | 14.28 | 14.28 |
| 05/02/2020 06:10:55 | 14.28 | 14.24 | 14.25 | 14.29 | 14.24 | 14.21 | 14.22 | 14.16 | 14.14 | 14.15 |
| 05/02/2020 06:20:55 | 14.16 | 14.16 | 14.15 | 14.12 | 14.12 | 14.11 | 14.10 | 14.07 | 14.07 | 14.07 |
| 05/02/2020 06:30:55 | 14.08 | 14.08 | 14.07 | 14.07 | 14.07 | 14.04 | 14.05 | 14.05 | 14.02 | 14.00 |
| 05/02/2020 06:40:55 | 14.02 | 14.01 | 14.01 | 14.01 | 13.97 | 13.99 | 13.98 | 13.97 | 13.97 | 13.95 |
| 05/02/2020 06:50:55 | 13.95 | 13.92 | 13.97 | 13.98 | 13.98 | 14.01 | 13.99 | 14.02 | 14.03 | 14.05 |
| 05/02/2020 07:00:55 | 14.07 | 14.07 | 14.07 | 14.08 | 14.09 | 14.10 | 14.11 | 14.11 | 14.13 | 14.13 |
| 05/02/2020 07:10:55 | 14.12 | 14.12 | 14.11 | 14.10 | 14.11 | 14.11 | 14.12 | 14.13 | 14.15 | 14.13 |
| 05/02/2020 07:20:55 | 14.14 | 14.18 | 14.19 | 14.19 | 14.19 | 14.24 | 14.23 | 14.21 | 14.21 | 14.19 |
| 05/02/2020 07:30:55 | 14.19 | 14.18 | 14.18 | 14.16 | 14.16 | 14.16 | 14.17 | 14.14 | 14.15 | 14.14 |
| 05/02/2020 07:40:55 | 14.15 | 14.14 | 14.15 | 14.17 | 14.12 | 14.09 | 14.07 | 14.03 | 14.02 | 14.01 |
| 05/02/2020 07:50:55 | 14.02 | 14.05 | 14.05 | 14.07 | 14.07 | 14.07 | 14.07 | 14.07 | 14.09 | 14.15 |
| 05/02/2020 08:00:55 | 14.18 | 14.21 | 14.23 | 14.22 | 14.21 | 14.23 | 14.24 | 14.24 | 14.26 | 14.27 |
| 05/02/2020 08:10:55 | 14.30 | 14.30 | 14.33 | 14.32 | 14.33 | 14.38 | 14.36 | 14.34 | 14.38 | 14.37 |
| 05/02/2020 08:20:55 | 14.39 | 14.40 | 14.43 | 14.43 | 14.40 | 14.39 | 14.38 | 14.41 | 14.41 | 14.38 |
| 05/02/2020 08:30:55 | 14.36 | 14.34 | 14.36 | 14.33 | 14.36 | 14.39 | 14.36 | 14.37 | 14.34 | 14.30 |
| 05/02/2020 08:40:55 | 14.32 | 14.27 | 14.28 | 14.25 | 14.24 | 14.26 | 14.24 | 14.24 | 14.22 | 14.24 |
| 05/02/2020 08:50:55 | 14.24 | 14.24 | 14.24 | 14.24 | 14.21 | 14.24 | 14.24 | 14.24 | 14.27 | 14.28 |
| 05/02/2020 09:00:55 | 14.26 | 14.29 | 14.28 | 14.29 | 14.32 | 14.37 | 14.39 | 14.42 | 14.45 | 14.48 |
| 05/02/2020 09:10:55 | 14.52 | 14.55 | 14.52 | 14.54 | 14.53 | 14.54 | 14.53 | 14.54 | 14.54 | 14.54 |
| 05/02/2020 09:20:55 | 14.55 | 14.55 | 14.54 | 14.51 | 14.52 | 14.48 | 14.44 | 14.41 | 14.37 | 14.38 |
| 05/02/2020 09:30:55 | 14.39 | 14.39 | 14.38 | 14.32 | 14.30 | 14.26 | 14.18 | 14.13 | 14.08 | 14.04 |
| 05/02/2020 09:40:55 | 14.03 | 14.00 | 13.99 | 13.96 | 13.92 | 13.87 | 13.84 | 13.81 | 13.82 | 13.82 |
| 05/02/2020 09:50:55 | 13.80 | 13.77 | 13.79 | 13.81 | 13.79 | 13.81 | 13.80 | 13.78 | 13.74 | 13.75 |
| 05/02/2020 10:00:55 | 13.72 | 13.69 | 13.69 | 13.71 | 13.72 | 13.74 | 13.78 | 13.79 | 13.82 | 13.83 |
| 05/02/2020 10:10:55 | 13.84 | 13.84 | 13.86 | 13.87 | 13.89 | 13.92 | 13.94 | 13.97 | 13.99 | 14.01 |
| 05/02/2020 10:20:55 | 14.01 | 14.05 | 14.04 | 14.07 | 14.08 | 14.09 | 14.11 | 14.08 | 14.11 | 14.12 |
| 05/02/2020 10:30:55 | 14.09 | 14.09 | 14.07 | 14.07 | 14.03 | 14.04 | 14.05 | 14.03 | 14.02 | 14.03 |
| 05/02/2020 10:40:55 | 14.03 | 14.01 | 14.01 | 14.03 | 14.02 | 14.05 | 14.04 | 14.07 | 14.08 | 14.14 |
| 05/02/2020 10:50:55 | 14.17 | 14.24 | 14.25 | 14.26 | 14.26 | 14.27 | 14.25 | 14.25 | 14.22 | 14.24 |
| 05/02/2020 11:00:55 | 14.26 | 14.26 | 14.25 | 14.26 | 14.28 | 14.29 | 14.30 | 14.28 | 14.29 | 14.31 |
| 05/02/2020 11:10:55 | 14.31 | 14.31 | 14.31 | 14.29 | 14.33 | 14.31 | 14.29 | 14.30 | 14.29 | 14.27 |
| 05/02/2020 11:20:55 | 14.27 | 14.26 | 14.32 | 14.32 | 14.32 | 14.33 | 14.30 | 14.30 | 14.28 | 14.26 |
| 05/02/2020 11:30:55 | 14.24 | 14.21 | 14.16 | 14.14 | 14.15 | 14.22 | 14.23 | 14.22 | 14.22 | 14.36 |

| Date Time | +0m | +1m | +2m | +3m | +4m | +5m | +6m | +7m | +8m | +9m |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 05/02/2020 11:40:55 | 14.33 | 14.32 | 14.28 | 14.23 | 14.24 | 14.26 | 14.25 | 14.23 | 14.22 | 14.22 |
| 05/02/2020 11:50:55 | 14.21 | 14.25 | 14.23 | 14.25 | 14.27 | 14.26 | 14.29 | 14.31 | 14.32 | 14.33 |
| 05/02/2020 12:00:55 | 14.36 | 14.36 | 14.38 | 14.39 | 14.41 | 14.42 | 14.43 | 14.42 | 14.43 | 14.42 |
| 05/02/2020 12:10:55 | 14.42 | 14.40 | 14.41 | 14.38 | 14.38 | 14.34 | 14.32 | 14.32 | 14.31 | 14.29 |
| 05/02/2020 12:20:55 | 14.28 | 14.22 | 14.23 | 14.23 | 14.18 | 14.19 | 14.18 | 14.18 | 14.22 | 14.24 |
| 05/02/2020 12:30:55 | 14.25 | 14.24 | 14.29 | 14.30 | 14.30 | 14.33 | 14.31 | 14.32 | 14.32 | 14.32 |
| 05/02/2020 12:40:55 | 14.32 | 14.34 | 14.34 | 14.34 | 14.34 | 14.34 | 14.34 | 14.34 | 14.37 | 14.37 |
| 05/02/2020 12:50:55 | 14.38 | 14.37 | 14.36 | 14.36 | 14.37 | 14.34 | 14.33 | 14.33 | 14.30 | 14.26 |
| 05/02/2020 13:00:55 | 14.25 | 14.26 | 14.26 | 14.23 | 14.26 | 14.25 | 14.27 | 14.29 | 14.28 | 14.26 |
| 05/02/2020 13:10:55 | 14.26 | 14.25 | 14.27 | 14.27 | 14.27 | 14.29 | 14.32 | 14.30 | 14.34 | 14.33 |
| 05/02/2020 13:20:55 | 14.36 | 14.37 | 14.37 | 14.38 | 14.38 | 14.39 | 14.42 | 14.40 | 14.41 | 14.41 |
| 05/02/2020 13:30:55 | 14.41 | | | | | | | | | |

7. Genuine

To verify if the digital copy of this document has been modified after it has been generated by SenseAnywhere visit <https://www.saclient.com/genuine> and upload this file. The portal will check the document against internal records and respond with 'Genuine' if the document has not been modified in any way. The uploaded copy will not be stored.

Appendix A - Certificates

| | | |
|-----------------------------------|----------------------|---|
| Certificate of Calibration | | Page 1 of 3 |
| Issued By | Withnell Sensors Ltd | Approved Signatory |
| Date of Issue | 30 January 2020 | Name Joe Knights |
| Certificate Number | 100F9D98A3.28012020 | Signatory  |



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Web: www.withnellsensors.co.uk



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|---------------------|--|
| Company Information | Withnell Sensors Ltd The Old Silk Mill Bury Lane Withnell, Chorley Lancashire PR6 8RX |
| Order No | INTERNCAL |
| Manufacturer | SenseAnywhere |
| Model | 20-20-30 |
| Serial Number | 100F9D98A3 |
| Description | SenseAnywhere Temperature Logger |
| Condition | Calibrated |
| Calibration Date | 28 January 2020 |
| Performed By | Joe Knights |
| Location | Withnell Sensors Ltd |
| Notes | No comments |
| Reference Standards | [1] SN: 40503, Cert No: 01323, Cal Due Date: 20-May-2020 |

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

| | |
|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9D98A3 | Page 2 of 3 |
| | Certificate Number 100F9D98A3.28012020 |

| | |
|-----------------------|--|
| Test Conditions | Ambient Temperature: 23°C ± 2 °C Relative Humidity: 40%RH ± 20%RH |
| Calibration Procedure | WSWI49 SenseAnywhere Calibration Rev06 |
| Calibration Method | The UUT was calibrated by fully immersing in a fluid bath and compared with a temperature reference standard of known and traceable values of uncertainty. At each setpoint the logger was allowed to equilibrate for a period of 60mins or more. A collection of samples were recorded and the average sample reported. |

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

| | |
|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9D98A3 | Page 3 of 3 |
| | Certificate Number 100F9D98A3.28012020 |

CHANNEL 1

AS FOUND

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.041 | -40.12 | -0.08 | 0.034 |
| [1] | 25 | 0.10 | 25.034 | 25.00 | -0.03 | 0.037 |
| [1] | 70 | 0.10 | 70.029 | 70.02 | -0.01 | 0.042 |


AS LEFT

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.030 | -40.04 | -0.01 | 0.036 |
| [1] | 25 | 0.10 | 25.032 | 25.02 | -0.01 | 0.049 |
| [1] | 70 | 0.10 | 70.024 | 70.02 | 0.00 | 0.036 |

End of Results

The results relate only to the items tested, calibrated or sampled. Unless specified, tolerances will be taken from the manufacturer's specification. If a pass/fail statement has been reported on this certificate it has been done on the basis of whether the limit was breached by the measured result, extended by the measurement uncertainty interval at a confidence level of 95% (k=2). The statement of conformity is applicable only to the measurements where a pass/fail statement has been reported.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

| | | |
|-----------------------------------|---------------------------|---|
| Certificate of Calibration | | Page 1 of 3 |
| Issued By | Withnell Sensors Ltd | Approved Signatory |
| Date of Issue | 31 January 2020 | Name Joe Knights |
| Certificate Number | 100F9F07D1.28012020.Rev01 | Signatory  |



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|---------------------|--|
| Company Information | Withnell Sensors Ltd The Old Silk Mill Bury Lane Withnell, Chorley Lancashire PR6 8RX |
| Order No | INTERNCAL |
| Manufacturer | SenseAnywhere |
| Model | 20-20-30 |
| Serial Number | 100F9F07D1 |
| Description | SenseAnywhere Temperature Logger |
| Condition | Calibrated |
| Calibration Date | 28 January 2020 |
| Performed By | Joe Knights |
| Location | Withnell Sensors Ltd |
| Notes | No comments |
| Reference Standards | [1] SN: 40503, Cert No: 01323, Cal Due Date: 20-May-2020 |

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| | |
|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9F07D1 | Page 2 of 3 |
| | Certificate Number 100F9F07D1.28012020.Rev01 |

| | |
|-----------------------|--|
| Test Conditions | Ambient Temperature: 23°C ± 2 °C Relative Humidity: 40%RH ± 20%RH |
| Calibration Procedure | WSWI49 SenseAnywhere Calibration Rev06 |
| Calibration Method | The UUT was calibrated by fully immersing in a fluid bath and compared with a temperature reference standard of known and traceable values of uncertainty. At each setpoint the logger was allowed to equilibrate for a period of 60mins or more. A collection of samples were recorded and the average sample reported. |

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

| | |
|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9F07D1 | Page 3 of 3 |
| | Certificate Number 100F9F07D1.28012020.Rev01 |

CHANNEL 1

AS FOUND

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.041 | -40.16 | -0.12 | 0.034 |
| [1] | 25 | 0.10 | 25.034 | 24.97 | -0.06 | 0.037 |
| [1] | 70 | 0.10 | 70.029 | 70.01 | -0.02 | 0.042 |


AS LEFT

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.030 | -40.03 | 0.00 | 0.036 |
| [1] | 25 | 0.10 | 25.032 | 25.03 | 0.00 | 0.049 |
| [1] | 70 | 0.10 | 70.024 | 70.01 | -0.01 | 0.036 |

End of Results

The results relate only to the items tested, calibrated or sampled. Unless specified, tolerances will be taken from the manufacturer's specification. If a pass/fail statement has been reported on this certificate it has been done on the basis of whether the limit was breached by the measured result, extended by the measurement uncertainty interval at a confidence level of 95% (k=2). The statement of conformity is applicable only to the measurements where a pass/fail statement has been reported.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

| | | |
|-----------------------------------|---------------------------|---|
| Certificate of Calibration | | Page 1 of 3 |
| Issued By | Withnell Sensors Ltd | Approved Signatory |
| Date of Issue | 31 January 2020 | Name Joe Knights |
| Certificate Number | 100F9F1C52.28012020.Rev01 | Signatory  |



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|---------------------|--|
| Company Information | Withnell Sensors Ltd The Old Silk Mill Bury Lane Withnell, Chorley Lancashire PR6 8RX |
| Order No | INTERNCAL |
| Manufacturer | SenseAnywhere |
| Model | 20-20-30 |
| Serial Number | 100F9F1C52 |
| Description | SenseAnywhere Temperature Logger |
| Condition | Calibrated |
| Calibration Date | 28 January 2020 |
| Performed By | Joe Knights |
| Location | Withnell Sensors Ltd |
| Notes | No comments |
| Reference Standards | [1] SN: 40503, Cert No: 01323, Cal Due Date: 20-May-2020 |

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

| | |
|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9F1C52 | Page 2 of 3 |
| | Certificate Number 100F9F1C52.28012020.Rev01 |

| | |
|-----------------------|--|
| Test Conditions | Ambient Temperature: 23°C ± 2 °C Relative Humidity: 40%RH ± 20%RH |
| Calibration Procedure | WSWI49 SenseAnywhere Calibration Rev06 |
| Calibration Method | The UUT was calibrated by fully immersing in a fluid bath and compared with a temperature reference standard of known and traceable values of uncertainty. At each setpoint the logger was allowed to equilibrate for a period of 60mins or more. A collection of samples were recorded and the average sample reported. |

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|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9F1C52 | Page 3 of 3 |
| | Certificate Number 100F9F1C52.28012020.Rev01 |

CHANNEL 1

AS FOUND

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.041 | -40.07 | -0.03 | 0.034 |
| [1] | 25 | 0.10 | 25.034 | 25.02 | -0.01 | 0.037 |
| [1] | 70 | 0.10 | 70.029 | 70.01 | -0.02 | 0.042 |

AS LEFT

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.030 | -40.04 | -0.01 | 0.036 |
| [1] | 25 | 0.10 | 25.032 | 25.02 | -0.01 | 0.049 |
| [1] | 70 | 0.10 | 70.024 | 70.03 | 0.01 | 0.036 |

End of Results

The results relate only to the items tested, calibrated or sampled. Unless specified, tolerances will be taken from the manufacturer's specification. If a pass/fail statement has been reported on this certificate it has been done on the basis of whether the limit was breached by the measured result, extended by the measurement uncertainty interval at a confidence level of 95% (k=2). The statement of conformity is applicable only to the measurements where a pass/fail statement has been reported.

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| | | |
|-----------------------------------|----------------------|---|
| Certificate of Calibration | | Page 1 of 3 |
| Issued By | Withnell Sensors Ltd | Approved Signatory |
| Date of Issue | 30 January 2020 | Name Joe Knights |
| Certificate Number | 100F9DF681.28012020 | Signatory  |



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| Company Information | Withnell Sensors Ltd The Old Silk Mill Bury Lane Withnell, Chorley Lancashire PR6 8RX |
| Order No | INTERNCAL |
| Manufacturer | SenseAnywhere |
| Model | 20-20-30 |
| Serial Number | 100F9DF681 |
| Description | SenseAnywhere Temperature Logger |
| Condition | Calibrated |
| Calibration Date | 28 January 2020 |
| Performed By | Joe Knights |
| Location | Withnell Sensors Ltd |
| Notes | No comments |
| Reference Standards | [1] SN: 40503, Cert No: 01323, Cal Due Date: 20-May-2020 |

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|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9DF681 | Page 2 of 3 |
| | Certificate Number 100F9DF681.28012020 |

| | |
|-----------------------|--|
| Test Conditions | Ambient Temperature: 23°C ± 2 °C Relative Humidity: 40%RH ± 20%RH |
| Calibration Procedure | WSWI49 SenseAnywhere Calibration Rev06 |
| Calibration Method | The UUT was calibrated by fully immersing in a fluid bath and compared with a temperature reference standard of known and traceable values of uncertainty. At each setpoint the logger was allowed to equilibrate for a period of 60mins or more. A collection of samples were recorded and the average sample reported. |

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|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9DF681 | Page 3 of 3 |
| | Certificate Number 100F9DF681.28012020 |

CHANNEL 1

AS FOUND

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.041 | -40.11 | -0.07 | 0.034 |
| [1] | 25 | 0.10 | 25.034 | 24.99 | -0.04 | 0.037 |
| [1] | 70 | 0.10 | 70.029 | 70.02 | -0.01 | 0.042 |


AS LEFT

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.030 | -40.04 | -0.01 | 0.036 |
| [1] | 25 | 0.10 | 25.032 | 25.03 | 0.00 | 0.049 |
| [1] | 70 | 0.10 | 70.024 | 70.02 | 0.00 | 0.036 |

End of Results

The results relate only to the items tested, calibrated or sampled. Unless specified, tolerances will be taken from the manufacturer's specification. If a pass/fail statement has been reported on this certificate it has been done on the basis of whether the limit was breached by the measured result, extended by the measurement uncertainty interval at a confidence level of 95% (k=2). The statement of conformity is applicable only to the measurements where a pass/fail statement has been reported.

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| | | |
|-----------------------------------|----------------------|---|
| Certificate of Calibration | | Page 1 of 3 |
| Issued By | Withnell Sensors Ltd | Approved Signatory |
| Date of Issue | 30 January 2020 | Name Joe Knights |
| Certificate Number | 100F9E293F.28012020 | Signatory  |



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Web: www.withnellsensors.co.uk



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| | |
|---------------------|--|
| Company Information | Withnell Sensors Ltd The Old Silk Mill Bury Lane Withnell, Chorley Lancashire PR6 8RX |
| Order No | INTERNCAL |
| Manufacturer | SenseAnywhere |
| Model | 20-20-30 |
| Serial Number | 100F9E293F |
| Description | SenseAnywhere Temperature Logger |
| Condition | Calibrated |
| Calibration Date | 28 January 2020 |
| Performed By | Joe Knights |
| Location | Withnell Sensors Ltd |
| Notes | No comments |
| Reference Standards | [1] SN: 40503, Cert No: 01323, Cal Due Date: 20-May-2020 |

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|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9E293F | Page 2 of 3 |
| | Certificate Number 100F9E293F.28012020 |

| | |
|-----------------------|--|
| Test Conditions | Ambient Temperature: 23°C ± 2 °C Relative Humidity: 40%RH ± 20%RH |
| Calibration Procedure | WSWI49 SenseAnywhere Calibration Rev06 |
| Calibration Method | The UUT was calibrated by fully immersing in a fluid bath and compared with a temperature reference standard of known and traceable values of uncertainty. At each setpoint the logger was allowed to equilibrate for a period of 60mins or more. A collection of samples were recorded and the average sample reported. |

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|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9E293F | Page 3 of 3 |
| | Certificate Number 100F9E293F.28012020 |

CHANNEL 1

AS FOUND

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.041 | -40.12 | -0.08 | 0.034 |
| [1] | 25 | 0.10 | 25.034 | 24.99 | -0.04 | 0.037 |
| [1] | 70 | 0.10 | 70.029 | 70.01 | -0.02 | 0.042 |


AS LEFT

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.030 | -40.03 | 0.00 | 0.036 |
| [1] | 25 | 0.10 | 25.032 | 25.03 | 0.00 | 0.049 |
| [1] | 70 | 0.10 | 70.024 | 70.02 | 0.00 | 0.036 |

End of Results

The results relate only to the items tested, calibrated or sampled. Unless specified, tolerances will be taken from the manufacturer's specification. If a pass/fail statement has been reported on this certificate it has been done on the basis of whether the limit was breached by the measured result, extended by the measurement uncertainty interval at a confidence level of 95% (k=2). The statement of conformity is applicable only to the measurements where a pass/fail statement has been reported.

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| | | |
|-----------------------------------|---------------------------|---|
| Certificate of Calibration | | Page 1 of 3 |
| Issued By | Withnell Sensors Ltd | Approved Signatory |
| Date of Issue | 31 January 2020 | Name Joe Knights |
| Certificate Number | 100F9E68B9.28012020.Rev01 | Signatory  |



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| | |
|---------------------|--|
| Company Information | Withnell Sensors Ltd The Old Silk Mill Bury Lane Withnell, Chorley Lancashire PR6 8RX |
| Order No | INTERNCAL |
| Manufacturer | SenseAnywhere |
| Model | 20-20-30 |
| Serial Number | 100F9E68B9 |
| Description | SenseAnywhere Temperature Logger |
| Condition | Calibrated |
| Calibration Date | 28 January 2020 |
| Performed By | Joe Knights |
| Location | Withnell Sensors Ltd |
| Notes | No comments |
| Reference Standards | [1] SN: 40503, Cert No: 01323, Cal Due Date: 20-May-2020 |

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|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9E68B9 | Page 2 of 3 |
| | Certificate Number 100F9E68B9.28012020.Rev01 |

| | |
|-----------------------|--|
| Test Conditions | Ambient Temperature: 23°C ± 2 °C Relative Humidity: 40%RH ± 20%RH |
| Calibration Procedure | WSWI49 SenseAnywhere Calibration Rev06 |
| Calibration Method | The UUT was calibrated by fully immersing in a fluid bath and compared with a temperature reference standard of known and traceable values of uncertainty. At each setpoint the logger was allowed to equilibrate for a period of 60mins or more. A collection of samples were recorded and the average sample reported. |

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| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9E68B9 | Page 3 of 3 |
| | Certificate Number 100F9E68B9.28012020.Rev01 |

CHANNEL 1

AS FOUND

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.041 | -40.07 | -0.03 | 0.034 |
| [1] | 25 | 0.10 | 25.034 | 25.02 | -0.01 | 0.037 |
| [1] | 70 | 0.10 | 70.029 | 70.01 | -0.02 | 0.042 |


AS LEFT

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.030 | -40.05 | -0.02 | 0.036 |
| [1] | 25 | 0.10 | 25.032 | 25.01 | -0.02 | 0.049 |
| [1] | 70 | 0.10 | 70.024 | 70.02 | 0.00 | 0.036 |

End of Results

The results relate only to the items tested, calibrated or sampled. Unless specified, tolerances will be taken from the manufacturer's specification. If a pass/fail statement has been reported on this certificate it has been done on the basis of whether the limit was breached by the measured result, extended by the measurement uncertainty interval at a confidence level of 95% (k=2). The statement of conformity is applicable only to the measurements where a pass/fail statement has been reported.

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| | | |
|-----------------------------------|---------------------------|---|
| Certificate of Calibration | | Page 1 of 3 |
| Issued By | Withnell Sensors Ltd | Approved Signatory |
| Date of Issue | 31 January 2020 | Name Joe Knights |
| Certificate Number | 100F9F16E6.28012020.Rev01 | Signatory  |



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|---------------------|--|
| Company Information | Withnell Sensors Ltd The Old Silk Mill Bury Lane Withnell, Chorley Lancashire PR6 8RX |
| Order No | INTERNCAL |
| Manufacturer | SenseAnywhere |
| Model | 20-20-30 |
| Serial Number | 100F9F16E6 |
| Description | SenseAnywhere Temperature Logger |
| Condition | Calibrated |
| Calibration Date | 28 January 2020 |
| Performed By | Joe Knights |
| Location | Withnell Sensors Ltd |
| Notes | No comments |
| Reference Standards | [1] SN: 40503, Cert No: 01323, Cal Due Date: 20-May-2020 |

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|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9F16E6 | Page 2 of 3 |
| | Certificate Number 100F9F16E6.28012020.Rev01 |

| | |
|-----------------------|--|
| Test Conditions | Ambient Temperature: 23°C ± 2 °C Relative Humidity: 40%RH ± 20%RH |
| Calibration Procedure | WSWI49 SenseAnywhere Calibration Rev06 |
| Calibration Method | The UUT was calibrated by fully immersing in a fluid bath and compared with a temperature reference standard of known and traceable values of uncertainty. At each setpoint the logger was allowed to equilibrate for a period of 60mins or more. A collection of samples were recorded and the average sample reported. |

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|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9F16E6 | Page 3 of 3 |
| | Certificate Number 100F9F16E6.28012020.Rev01 |

CHANNEL 1

AS FOUND

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.041 | -40.08 | -0.04 | 0.034 |
| [1] | 25 | 0.10 | 25.034 | 25.01 | -0.02 | 0.037 |
| [1] | 70 | 0.10 | 70.029 | 70.00 | -0.03 | 0.042 |


AS LEFT

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.030 | -40.04 | -0.01 | 0.036 |
| [1] | 25 | 0.10 | 25.032 | 25.02 | -0.01 | 0.049 |
| [1] | 70 | 0.10 | 70.024 | 70.03 | 0.01 | 0.036 |

End of Results

The results relate only to the items tested, calibrated or sampled. Unless specified, tolerances will be taken from the manufacturer's specification. If a pass/fail statement has been reported on this certificate it has been done on the basis of whether the limit was breached by the measured result, extended by the measurement uncertainty interval at a confidence level of 95% (k=2). The statement of conformity is applicable only to the measurements where a pass/fail statement has been reported.

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| | | |
|-----------------------------------|----------------------|---|
| Certificate of Calibration | | Page 1 of 3 |
| Issued By | Withnell Sensors Ltd | Approved Signatory |
| Date of Issue | 30 January 2020 | Name Joe Knights |
| Certificate Number | 100F9EAA00.28012020 | Signatory  |



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|---------------------|--|
| Company Information | Withnell Sensors Ltd The Old Silk Mill Bury Lane Withnell, Chorley Lancashire PR6 8RX |
| Order No | INTERNCAL |
| Manufacturer | SenseAnywhere |
| Model | 20-20-30 |
| Serial Number | 100F9EAA00 |
| Description | SenseAnywhere Temperature Logger |
| Condition | Calibrated |
| Calibration Date | 28 January 2020 |
| Performed By | Joe Knights |
| Location | Withnell Sensors Ltd |
| Notes | No comments |
| Reference Standards | [1] SN: 40503, Cert No: 01323, Cal Due Date: 20-May-2020 |

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| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9EAA00 | Page 2 of 3 |
| | Certificate Number 100F9EAA00.28012020 |

| | |
|-----------------------|--|
| Test Conditions | Ambient Temperature: 23°C ± 2 °C Relative Humidity: 40%RH ± 20%RH |
| Calibration Procedure | WSWI49 SenseAnywhere Calibration Rev06 |
| Calibration Method | The UUT was calibrated by fully immersing in a fluid bath and compared with a temperature reference standard of known and traceable values of uncertainty. At each setpoint the logger was allowed to equilibrate for a period of 60mins or more. A collection of samples were recorded and the average sample reported. |

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|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9EAA00 | Page 3 of 3 |
| | Certificate Number 100F9EAA00.28012020 |

CHANNEL 1

AS FOUND

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.041 | -40.17 | -0.13 | 0.034 |
| [1] | 25 | 0.10 | 25.034 | 24.98 | -0.05 | 0.037 |
| [1] | 70 | 0.10 | 70.029 | 70.02 | -0.01 | 0.042 |


AS LEFT

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.030 | -40.03 | 0.00 | 0.036 |
| [1] | 25 | 0.10 | 25.032 | 25.02 | -0.01 | 0.049 |
| [1] | 70 | 0.10 | 70.024 | 70.03 | 0.00 | 0.036 |

End of Results

The results relate only to the items tested, calibrated or sampled. Unless specified, tolerances will be taken from the manufacturer's specification. If a pass/fail statement has been reported on this certificate it has been done on the basis of whether the limit was breached by the measured result, extended by the measurement uncertainty interval at a confidence level of 95% (k=2). The statement of conformity is applicable only to the measurements where a pass/fail statement has been reported.

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| | | |
|-----------------------------------|---------------------------|---|
| Certificate of Calibration | | Page 1 of 3 |
| Issued By | Withnell Sensors Ltd | Approved Signatory |
| Date of Issue | 31 January 2020 | Name Joe Knights |
| Certificate Number | 100F9FDEEB.28012020.Rev01 | Signatory  |



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|---------------------|--|
| Company Information | Withnell Sensors Ltd The Old Silk Mill Bury Lane Withnell, Chorley Lancashire PR6 8RX |
| Order No | INTERNCAL |
| Manufacturer | SenseAnywhere |
| Model | 20-20-30 |
| Serial Number | 100F9FDEEB |
| Description | SenseAnywhere Temperature Logger |
| Condition | Calibrated |
| Calibration Date | 28 January 2020 |
| Performed By | Joe Knights |
| Location | Withnell Sensors Ltd |
| Notes | No comments |
| Reference Standards | [1] SN: 40503, Cert No: 01323, Cal Due Date: 20-May-2020 |

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| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9FDEEB | Page 2 of 3 |
| | Certificate Number 100F9FDEEB.28012020.Rev01 |

| | |
|-----------------------|--|
| Test Conditions | Ambient Temperature: 23°C ± 2 °C Relative Humidity: 40%RH ± 20%RH |
| Calibration Procedure | WSWI49 SenseAnywhere Calibration Rev06 |
| Calibration Method | The UUT was calibrated by fully immersing in a fluid bath and compared with a temperature reference standard of known and traceable values of uncertainty. At each setpoint the logger was allowed to equilibrate for a period of 60mins or more. A collection of samples were recorded and the average sample reported. |

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|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100F9FDEEB | Page 3 of 3 |
| | Certificate Number 100F9FDEEB.28012020.Rev01 |

CHANNEL 1

AS FOUND

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.041 | -40.13 | -0.09 | 0.034 |
| [1] | 25 | 0.10 | 25.034 | 24.99 | -0.04 | 0.037 |
| [1] | 70 | 0.10 | 70.029 | 70.03 | 0.00 | 0.042 |


AS LEFT

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.030 | -40.04 | -0.01 | 0.036 |
| [1] | 25 | 0.10 | 25.032 | 25.04 | 0.01 | 0.049 |
| [1] | 70 | 0.10 | 70.024 | 70.02 | 0.00 | 0.036 |

End of Results

The results relate only to the items tested, calibrated or sampled. Unless specified, tolerances will be taken from the manufacturer's specification. If a pass/fail statement has been reported on this certificate it has been done on the basis of whether the limit was breached by the measured result, extended by the measurement uncertainty interval at a confidence level of 95% (k=2). The statement of conformity is applicable only to the measurements where a pass/fail statement has been reported.

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| | | |
|-----------------------------------|---------------------------|---|
| Certificate of Calibration | | Page 1 of 3 |
| Issued By | Withnell Sensors Ltd | Approved Signatory |
| Date of Issue | 31 January 2020 | Name Joe Knights |
| Certificate Number | 100FA0D286.28012020.Rev01 | Signatory  |



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Web: www.withnellsensors.co.uk



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|---------------------|--|
| Company Information | Withnell Sensors Ltd The Old Silk Mill Bury Lane Withnell, Chorley Lancashire PR6 8RX |
| Order No | INTERNCAL |
| Manufacturer | SenseAnywhere |
| Model | 20-20-30 |
| Serial Number | 100FA0D286 |
| Description | SenseAnywhere Temperature Logger |
| Condition | Calibrated |
| Calibration Date | 28 January 2020 |
| Performed By | Joe Knights |
| Location | Withnell Sensors Ltd |
| Notes | No comments |
| Reference Standards | [1] SN: 40503, Cert No: 01323, Cal Due Date: 20-May-2020 |

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| | |
|---|---|
| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100FA0D286 | Page 2 of 3 |
| | Certificate Number 100FA0D286.28012020.Rev01 |

| | |
|-----------------------|--|
| Test Conditions | Ambient Temperature: 23°C ± 2 °C Relative Humidity: 40%RH ± 20%RH |
| Calibration Procedure | WSWI49 SenseAnywhere Calibration Rev06 |
| Calibration Method | The UUT was calibrated by fully immersing in a fluid bath and compared with a temperature reference standard of known and traceable values of uncertainty. At each setpoint the logger was allowed to equilibrate for a period of 60mins or more. A collection of samples were recorded and the average sample reported. |

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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| Certificate of Calibration Withnell Sensors Ltd, The Old Silk Mill, Bury Lane, Withnell, Chorley, Lancashire PR6 8RX Model: 20-20-30 Serial Number: 100FA0D286 | Page 3 of 3 |
| | Certificate Number 100FA0D286.28012020.Rev01 |

CHANNEL 1

AS FOUND

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.041 | -40.15 | -0.11 | 0.034 |
| [1] | 25 | 0.10 | 25.034 | 24.97 | -0.06 | 0.037 |
| [1] | 70 | 0.10 | 70.029 | 69.99 | -0.04 | 0.042 |

AS LEFT

| | Set-Point °C | Spec ±°C | Standard °C | UUT °C | Difference °C | Measurement Uncertainty ±°C |
|-----|--------------|----------|-------------|--------|---------------|-----------------------------|
| [1] | -40 | 0.15 | -40.030 | -40.02 | 0.01 | 0.036 |
| [1] | 25 | 0.10 | 25.032 | 25.01 | -0.02 | 0.049 |
| [1] | 70 | 0.10 | 70.024 | 70.03 | 0.01 | 0.036 |

End of Results

The results relate only to the items tested, calibrated or sampled. Unless specified, tolerances will be taken from the manufacturer's specification. If a pass/fail statement has been reported on this certificate it has been done on the basis of whether the limit was breached by the measured result, extended by the measurement uncertainty interval at a confidence level of 95% (k=2). The statement of conformity is applicable only to the measurements where a pass/fail statement has been reported.

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