

Performance Certificate



Device Model

Aethair IAQ 2

Serial Number

1C002887

Date Tested

July 14, 2024

Aethair certifies that the sensors listed above has been calibrated using standards whose accuracies are traceable to the United States National Institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants.

Carbon Dioxide (ppm)

Reference Device: [1C035928] AirThinX2 (1C035928)

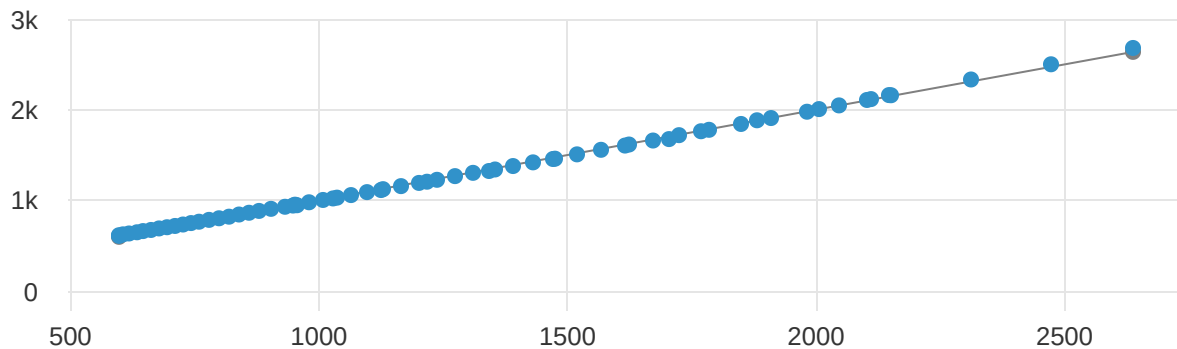
Correlation 1.0

p95 19.33

p90 16.23

p75 12.66

$R_2 = 1.000$



Relative Humidity (%)

Reference Device: [2B594595] Fluke-1620A (C06362)

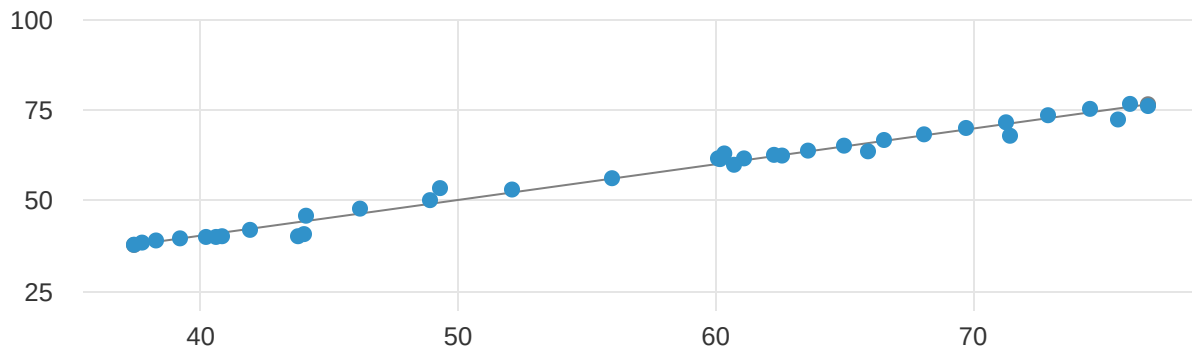
Correlation 0.992

p95 3.62

p90 3.31

p75 1.48

$R_2 = 0.984$



Temperature (°C)

Reference Device: [2B594595] Fluke-1620A (C06362)

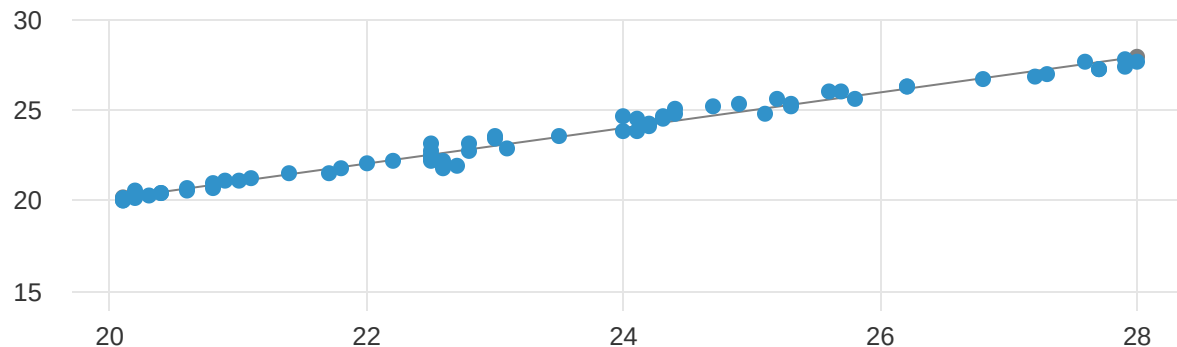
Correlation 0.991

p95 0.64

p90 0.54

p75 0.39

$R_2 = 0.981$



Total VOCs (ppm)

Reference Device: [0B312722] ppbRAE 3000 (594-907895)

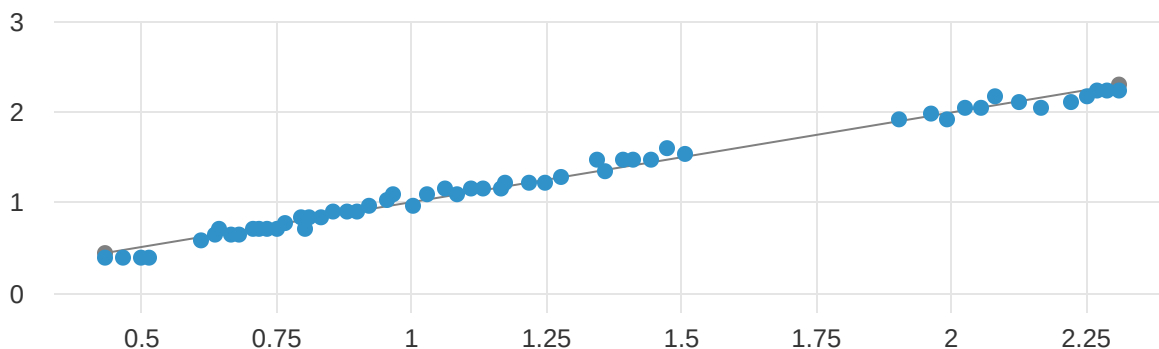
Correlation 0.994

p95 0.12

p90 0.11

p75 0.08

$R_2 = 0.989$



Formaldehyde* (mg/m³)

Calibrated by Plantower

Reference Device: PARTICULATE REFERENCE DEVICE

Correlation 0.00

p95: 0.00

p90: 0.00

p75: 0.00

Formaldehyde sensor was calibrated by Plantower and confirms accuracy with reference instruments.

PM 2.5* (µg/m³)

Calibrated by Plantower

Reference Device: PARTICULATE REFERENCE DEVICE

Correlation 0.00

p95: 0.00

p90: 0.00

p75: 0.00

PM 2.5 sensor was calibrated by Plantower and confirms accuracy with reference instruments.

P95, P90, and P75 represent percentiles of measurement errors/deviations from the reference device, reflecting the sensor's performance consistency compared to the reference device. Correlation measures the overall alignment of data with the reference device

* Formaldehyde and PM2.5 sensors are calibrated by Plantower, and have been tested by Aethair to confirm accuracy with reference instruments.