

### Temperature (°C) Consistency Results

Sensor A	Sensor B	Correlation	MAE
Sensor 4	Sensor 1	0.844	0.341
Sensor 4	Sensor 2	0.978	0.102
Sensor 4	Sensor 8	0.983	0.052
Sensor 4	Sensor 7	0.978	0.879
Sensor 4	Sensor 5	0.991	0.442
Sensor 4	Sensor 3	0.989	0.042
Sensor 1	Sensor 2	0.881	0.441
Sensor 1	Sensor 8	0.801	0.393
Sensor 1	Sensor 7	0.809	1.22
Sensor 1	Sensor 5	0.844	0.783
Sensor 1	Sensor 3	0.82	0.376
Sensor 2	Sensor 8	0.958	0.078
Sensor 2	Sensor 7	0.962	0.779
Sensor 2	Sensor 5	0.977	0.342
Sensor 2	Sensor 3	0.979	0.073
Sensor 8	Sensor 7	0.979	0.83
Sensor 8	Sensor 5	0.981	0.393
Sensor 8	Sensor 3	0.981	0.034
Sensor 7	Sensor 5	0.977	0.437
Sensor 7	Sensor 3	0.981	0.844
Sensor 5	Sensor 3	0.987	0.407

UV index Consistency Results

Sensor A	Sensor B	Correlation	MAE
Sensor 4	Sensor 1	nan	0.0
Sensor 4	Sensor 2	nan	0.0
Sensor 4	Sensor 8	nan	0.047
Sensor 4	Sensor 7	nan	0.0
Sensor 4	Sensor 5	nan	0.001
Sensor 4	Sensor 3	nan	0.0
Sensor 1	Sensor 2	nan	0.0
Sensor 1	Sensor 8	nan	0.047
Sensor 1	Sensor 7	nan	0.0
Sensor 1	Sensor 5	nan	0.001
Sensor 1	Sensor 3	nan	0.0
Sensor 2	Sensor 8	-0.004	0.047
Sensor 2	Sensor 7	nan	0.0
Sensor 2	Sensor 5	-0.0	0.001
Sensor 2	Sensor 3	-0.0	0.0
Sensor 8	Sensor 7	nan	0.047
Sensor 8	Sensor 5	0.003	0.047
Sensor 8	Sensor 3	0.047	0.047
Sensor 7	Sensor 5	nan	0.001
Sensor 7	Sensor 3	nan	0.0
Sensor 5	Sensor 3	-0.0	0.001

### Ambient Light (lux) Consistency Results

Sensor A	Sensor B	Correlation	MAE
Sensor 4	Sensor 1	1.0	4.052
Sensor 4	Sensor 2	0.999	1.844
Sensor 4	Sensor 8	0.988	6.304
Sensor 4	Sensor 7	1.0	1.499
Sensor 4	Sensor 5	0.999	1.235
Sensor 4	Sensor 3	0.999	1.293
Sensor 1	Sensor 2	1.0	2.558
Sensor 1	Sensor 8	0.989	9.933
Sensor 1	Sensor 7	1.0	5.309
Sensor 1	Sensor 5	0.999	3.603
Sensor 1	Sensor 3	0.999	3.401
Sensor 2	Sensor 8	0.989	7.743
Sensor 2	Sensor 7	1.0	3.069
Sensor 2	Sensor 5	1.0	1.164
Sensor 2	Sensor 3	1.0	0.952
Sensor 8	Sensor 7	0.989	5.014
Sensor 8	Sensor 5	0.989	6.944
Sensor 8	Sensor 3	0.989	7.08
Sensor 7	Sensor 5	0.999	2.469
Sensor 7	Sensor 3	0.999	2.516
Sensor 5	Sensor 3	1.0	0.349

### Pressure (mbar) Consistency Results

Sensor A	Sensor B	Correlation	MAE
Sensor 4	Sensor 1	0.999	0.543
Sensor 4	Sensor 2	0.999	0.809
Sensor 4	Sensor 8	0.998	0.677
Sensor 4	Sensor 7	1.0	0.267
Sensor 4	Sensor 5	0.999	0.292
Sensor 4	Sensor 3	0.999	0.453
Sensor 1	Sensor 2	1.0	0.266
Sensor 1	Sensor 8	0.998	0.136
Sensor 1	Sensor 7	0.999	0.81
Sensor 1	Sensor 5	0.999	0.834
Sensor 1	Sensor 3	0.999	0.09
Sensor 2	Sensor 8	0.998	0.135
Sensor 2	Sensor 7	0.999	1.076
Sensor 2	Sensor 5	0.999	1.101
Sensor 2	Sensor 3	1.0	0.356
Sensor 8	Sensor 7	0.998	0.943
Sensor 8	Sensor 5	0.998	0.969
Sensor 8	Sensor 3	0.998	0.223
Sensor 7	Sensor 5	0.999	0.042
Sensor 7	Sensor 3	1.0	0.72
Sensor 5	Sensor 3	0.999	0.745

### Humidity (%) Consistency Results

Sensor A	Sensor B	Correlation	MAE
Sensor 4	Sensor 1	0.979	0.757
Sensor 4	Sensor 2	0.998	0.705
Sensor 4	Sensor 8	0.997	2.549
Sensor 4	Sensor 7	0.996	1.665
Sensor 4	Sensor 5	0.999	0.606
Sensor 4	Sensor 3	0.999	0.089
Sensor 1	Sensor 2	0.984	1.462
Sensor 1	Sensor 8	0.976	3.31
Sensor 1	Sensor 7	0.973	2.423
Sensor 1	Sensor 5	0.98	1.363
Sensor 1	Sensor 3	0.975	0.841
Sensor 2	Sensor 8	0.995	1.846
Sensor 2	Sensor 7	0.994	0.961
Sensor 2	Sensor 5	0.997	0.114
Sensor 2	Sensor 3	0.998	0.621
Sensor 8	Sensor 7	0.996	0.883
Sensor 8	Sensor 5	0.997	1.943
Sensor 8	Sensor 3	0.996	2.465
Sensor 7	Sensor 5	0.997	1.059
Sensor 7	Sensor 3	0.996	1.581
Sensor 5	Sensor 3	0.998	0.522

### Sound Level (dB) Consistency Results

Sensor A	Sensor B	Correlation	MAE
Sensor 4	Sensor 1	0.935	1.383
Sensor 4	Sensor 2	0.931	1.433
Sensor 4	Sensor 8	0.897	18.609
Sensor 4	Sensor 7	0.933	1.416
Sensor 4	Sensor 5	0.92	1.516
Sensor 4	Sensor 3	0.92	1.541
Sensor 1	Sensor 2	0.944	1.307
Sensor 1	Sensor 8	0.897	18.701
Sensor 1	Sensor 7	0.944	1.311
Sensor 1	Sensor 5	0.926	1.463
Sensor 1	Sensor 3	0.929	1.501
Sensor 2	Sensor 8	0.897	18.57
Sensor 2	Sensor 7	0.944	1.337
Sensor 2	Sensor 5	0.925	1.508
Sensor 2	Sensor 3	0.931	1.478
Sensor 8	Sensor 7	0.902	18.874
Sensor 8	Sensor 5	0.9	18.98
Sensor 8	Sensor 3	0.898	18.149
Sensor 7	Sensor 5	0.927	1.44
Sensor 7	Sensor 3	0.929	1.556
Sensor 5	Sensor 3	0.928	1.588

**CO2 (ppm) Consistency Results**

Sensor A	Sensor B	Correlation	MAE
Sensor 4	Sensor 1	0.919	0.316
Sensor 4	Sensor 2	0.962	0.533
Sensor 4	Sensor 8	0.973	0.289
Sensor 4	Sensor 7	0.965	0.2
Sensor 4	Sensor 5	0.98	0.244
Sensor 4	Sensor 3	0.936	0.337
Sensor 1	Sensor 2	0.97	0.411
Sensor 1	Sensor 8	0.914	0.28
Sensor 1	Sensor 7	0.919	0.307
Sensor 1	Sensor 5	0.924	0.305
Sensor 1	Sensor 3	0.893	0.325
Sensor 2	Sensor 8	0.965	0.374
Sensor 2	Sensor 7	0.963	0.628
Sensor 2	Sensor 5	0.969	0.326
Sensor 2	Sensor 3	0.93	0.493
Sensor 8	Sensor 7	0.967	0.336
Sensor 8	Sensor 5	0.975	0.175
Sensor 8	Sensor 3	0.928	0.308
Sensor 7	Sensor 5	0.981	0.339
Sensor 7	Sensor 3	0.917	0.387
Sensor 5	Sensor 3	0.929	0.308

### VOCs (ppb) Consistency Results

Sensor A	Sensor B	Correlation	MAE
Sensor 4	Sensor 1	0.92	0.48
Sensor 4	Sensor 2	0.962	0.817
Sensor 4	Sensor 8	0.974	0.443
Sensor 4	Sensor 7	0.964	0.308
Sensor 4	Sensor 5	0.981	0.379
Sensor 4	Sensor 3	0.936	0.514
Sensor 1	Sensor 2	0.97	0.619
Sensor 1	Sensor 8	0.916	0.424
Sensor 1	Sensor 7	0.918	0.471
Sensor 1	Sensor 5	0.927	0.453
Sensor 1	Sensor 3	0.895	0.491
Sensor 2	Sensor 8	0.965	0.567
Sensor 2	Sensor 7	0.96	0.949
Sensor 2	Sensor 5	0.97	0.496
Sensor 2	Sensor 3	0.93	0.748
Sensor 8	Sensor 7	0.965	0.509
Sensor 8	Sensor 5	0.976	0.258
Sensor 8	Sensor 3	0.928	0.471
Sensor 7	Sensor 5	0.98	0.513
Sensor 7	Sensor 3	0.915	0.59
Sensor 5	Sensor 3	0.931	0.463



### magnetic field( $\mu$ T) Consistency Results

Sensor A	Sensor B	Correlation	MAE
Sensor 4	Sensor 1	0.012	214.87
Sensor 4	Sensor 2	-0.005	216.099
Sensor 4	Sensor 8	0.001	165.443
Sensor 4	Sensor 7	-0.001	165.794
Sensor 4	Sensor 5	0.016	87.236
Sensor 4	Sensor 3	0.0	107.423
Sensor 1	Sensor 2	-0.018	148.144
Sensor 1	Sensor 8	-0.001	196.735
Sensor 1	Sensor 7	-0.002	197.473
Sensor 1	Sensor 5	-0.004	215.845
Sensor 1	Sensor 3	-0.01	186.566
Sensor 2	Sensor 8	-0.006	188.093
Sensor 2	Sensor 7	0.005	188.915
Sensor 2	Sensor 5	-0.008	217.759
Sensor 2	Sensor 3	0.01	130.094
Sensor 8	Sensor 7	-0.004	188.048
Sensor 8	Sensor 5	0.008	167.392
Sensor 8	Sensor 3	-0.007	167.837
Sensor 7	Sensor 5	0.006	167.634
Sensor 7	Sensor 3	0.002	168.689
Sensor 5	Sensor 3	0.002	117.403