

# Specifications:

## Sensor Module Specifications

| Parameter                               | Conditions         | Value  | Units        |
|-----------------------------------------|--------------------|--------|--------------|
| Sampling interval                       | -                  | 1±0.03 | s            |
| Lifetime                                | 24 h/day operation | > 10   | years        |
| Acoustic emission level                 | 0.2m               | 24     | dB(A)        |
| Long term acoustic emission level drift | 0.2m               | +0.5   | dB(A) / year |

## Particulate Matter Specifications

| Parameter                          | Conditions | Value       | Units |
|------------------------------------|------------|-------------|-------|
| Mass concentration specified range |            | 0 to 1'000  | µg/m3 |
| Mass concentration size range      | PM1.0      | 0.3 to 1.0  | µg    |
|                                    | PM2.5      | 0.3 to 2.5  | µg    |
|                                    | PM4        | 0.3 to 4.0  | µg    |
|                                    | PM10       | 0.3 to 10.0 | µg    |

### Temperature and Humidity Specifications

| Parameter                    | Conditions             | Value                             | Units     |
|------------------------------|------------------------|-----------------------------------|-----------|
| Compensated outputs          | -                      | Temperature and Relative Humidity | °C<br>%RH |
| Typical accuracy temperature | @ 15-30 °C, 50 %RH     | ± 0.45                            | °C        |
| Max. accuracy temperature    | @ 15-30 °C, 50 %RH     | ± 0.7                             | °C        |
| Repeatability temperature    | @ 25 °C, 50 %RH, τ 63% | < 60                              | s         |

### Gas Specifications

| Parameter                  | Comments  | Values |      |     | Units            |
|----------------------------|-----------|--------|------|-----|------------------|
|                            |           | Min    | Typ  | Max |                  |
|                            |           |        |      |     |                  |
| Output signals             | VOC Index | 1      | -    | 500 | VOC Index points |
| Device-to-device variation | VOC Index |        | <±15 |     | VOC Index points |
| Repeatability              | VOC Index |        | <±5  |     | VOC Index points |

For further and more specific measured information, please refer to [here](#).