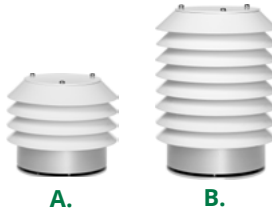


# WAVELET OUTDOOR AIR QUALITY KIT



## SUMMARY

The Wavelet Outdoor Air Quality Kit offers an end-to-end solution for real-time measurement of the most common gaseous air pollutants including Nitrogen Dioxide, Sulfur Dioxide, Carbon Monoxide, Ozone and Particulate Matter (PM<sub>2.5</sub> and PM<sub>10</sub>). Air quality monitoring is essential for complying with the EPA's Clean Air Act and protecting public health and safety. Polluted air can cause various health issues, including respiratory and neurological diseases, in addition to causing environmental impacts such as ozone depletion and acid rain.

The Wavelet Outdoor Air Quality Kit is easy to deploy, thanks to the compact nature of the sensor and Wavelet device. This multi-parameter, autonomous solution enables simple and seamless data collection in all weather conditions. It is ideal for manufacturers looking to extend existing networks and for municipal officials looking to set up a new urban air quality sensor network.

## FEATURES

- ▶ Compact Design
- ▶ Multi-Parameter Monitoring
- ▶ Low Maintenance

## APPLICATIONS

- ▶ EPA Clean Air Act Compliance
- ▶ Industrial Emissions Monitoring
- ▶ Urban Air Quality Monitoring

## SENSOR SPECIFICATIONS

### A. Outdoor Air Quality Sensor

	Range	Resolution	Accuracy
SO <sub>2</sub>	0 – 2 ppm	±0.001 ppm	< ±1 % FS ppm
NO <sub>2</sub>	0 – 2 ppm	±0.001 ppm	< ±1 % FS ppm
CO	0 – 10 ppm	±0.01 ppm	< ±3 % FS ppm
O <sub>3</sub>	0 – 2 ppm	±0.01 ppm	< ±3 % FS ppm
Temperature	-40°C to 85 °C (-40°F to 185°F)	0.1°C	±0.3°C, ±0.1°C repeatability
Humidity	0 – 100% RH	0.1% RH	±2% RH
Pressure	800 – 1,100 mbar (800 – 1,000 hPa)	1 mbar	< ±1% FS

### B. Outdoor Air Quality+ Sensor

PM <sub>2.5</sub> Range	0 – 2,000 µg/m <sup>3</sup>
PM <sub>10</sub> Range	0 – 5,000 µg/m <sup>3</sup>
Response Time	< 60 s
Resolution	0.1 µg/m <sup>3</sup>

### Model No. WA2111-SE00052-WA00154

#### Wavelet Outdoor Air Quality Kit includes:

- Wavelet Device & Activator
- 4G (LTE), 3G, 2G Global SIM Card
- Internal Lithium Battery
- Installation Hardware
- External Power Connector
- Mounting Kit
- **WA00154** 10W Solar Panel Assembly
- **A. SE00052** Multi-Parameter Air Quality Sensor (NO, SO<sub>2</sub>, CO, O<sub>3</sub>), 3.3 m (11-ft) Cable

### Model No. WA2111-SE00053-WA00154

#### Wavelet Outdoor Air Quality+ Kit includes the following upgraded sensor with Particulate Matter (PM) monitoring:

- **B. SE00053** Multi-Parameter Air Quality Sensor (NO, SO<sub>2</sub>, CO, O<sub>3</sub>, PM<sub>2.5</sub>, PM<sub>10</sub>), 3.3 m (11-ft) Cable