

1 Introduction

1.1 What is particulate matter?

PM stands for particulate matter (also called particle pollution): the term for a mixture of solid particles and liquid droplets found in the air. Some particles, such as dust, dirt, soot, or smoke, are large or dark enough to be seen with the naked eye. Others are so small they can only be detected using an electron microscope.

Particle pollution can be classified by size:

PM10 inhalable particles, with diameters that are generally 10 micrometers and smaller; and

PM2.5 fine inhalable particles, with diameters that are generally 2.5 micrometers and smaller.

NOTE: The average human hair is about 70 micrometers in diameter — making it 30 times larger than the largest fine particle.

2 PM2.5

2.1 Wiring

2.2 Code and Testing

3 Sensor 2