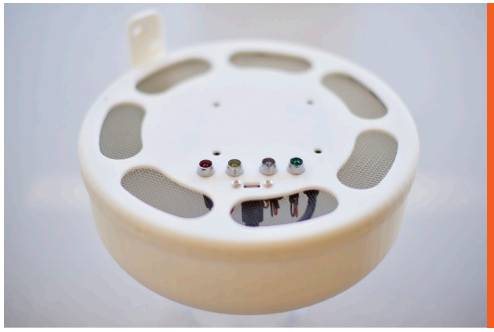
AIRVIZ

TRIPLE VOC OUTDOOR SENSOR PLATFORM DATASHEET

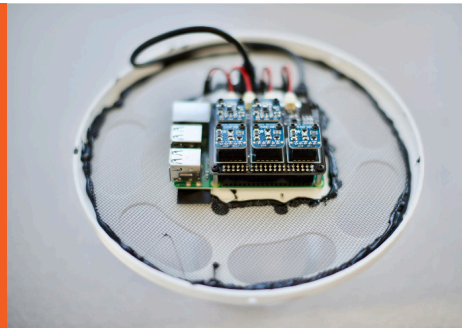
SENSORS

- **Triple redundant Sensirion Multi-Pixel MEMS detector module**
  - VOC and CO2 equivalent gas concentration signals
    - VOC: 0 to 60000 ppb
    - CO2: 400 to 60000 ppm
    - Single-sensor-to-sensor difference < 40% unit to unit pre-calibration
    - < 3% long-term drift for 10 years of indoor use
  - Optional calibration to specific known gases
  - Dynamic baseline compensation and on-chip calibration.
  - Operates in -5C to 55C temperature range, 4-20g/m3 absolute humidity
  - 1Hz datastream downsampled to once every 30s
- **Two HTU21D temperature and humidity sensors**
- **Optional additional sensors**
  - PM2.5, ultrafines



Sensor networks can be deployed for hyperlocal and area monitoring of environmental conditions as well as tracking known emission sources in a wide range of commercial, residential, industrial / manufacturing, and metro-politan environments.

The sensing element features an unmatched robustness against contaminating gases present in real-world applications, enabling a unique long-term stability and low drift. Sensors have been selected after field testing and extensive research in partnership with Carnegie Mellon University's CREATE Lab.



ENCLOSURES

- **Wall or pole mountable**
- **Weather-resistant for outdoor use**
- **Designed to be co-located with standard air quality instruments**

CONNECTIVITY

- **Flexible Wifi or Cellular cloud uplink platform**
- **Upload to ESDR, Microsoft Azure, or custom IoT cloud platform**
- **Configurable upload rates for low-bandwidth deployments**

POWER SUPPLY

- **5V 2.5A USB power**