

SENSIT[®] RAMP

REMOTE AIR QUALITY MONITORING PLATFORM



SENSIT[®] RAMP is capable of monitoring up to five gaseous chemical pollutants, temperature, humidity, particulate matter, and meteorological conditions.

MADE IN THE USA
WITH GLOBALLY SOURCED COMPONENTS



Innovative Detection Solutions

www.gasleaksensors.com

SENSIT[®] RAMP

A remote air quality monitoring platform and pollution data management system

The SENSIT[®] RAMP is an easily deployable, low-cost air quality monitoring platform that is capable of monitoring up to five gaseous chemical pollutants, temperature, humidity, particulate matter, and meteorological conditions.

Electrochemical sensors offer PPB, parts per billion, resolution for CO, NO, NO₂, O₃, and SO₂ gases. An integrated PM2.5 particulate matter sensor measures pollutants in the atmosphere.

Other features include internal SD storage, optional solar charging and global cellular integration for remote operation. Additional instrumentation may be integrated via four I/O ports on the side of the unit.

Standard Features

- Durable, weather resistant housing
- Long life, low cost sensors
- Local or remote operation
- Wireless Cellular
- SD card data backup
- Backup battery

Available Sensors

- CO
- CO₂
- NO
- NO₂
- O₃
- SO₂
- PM2.5
- TVOC, Temperature, and Relative Humidity, Anemometer

Applications

- Remote air quality monitoring
- Pollutant source identification
- Industrial site monitoring
- Traffic pattern optimization
- Environmental impact studies
- Wildfire air quality monitoring



PRODUCT SPECIFICATIONS

Weight	Base unit: 7.5 lbs
Dimensions	Fully assembled without anemometer or antenna D x W x H (5" x 10" x 12")
Mounting	Attached mounting flanges
Voltage Requirements	18V – 24V DC Charging (wired adapter or solar panel)
Current Requirements	2A max current draw when charging
Operating Runtime	3-15 days battery backup
Operating Temp	-20°C to 50°C
Data Outputs	Digital wired output (3.3V TTL - USB) Wireless (Cellular Included) SD card data backup

Notes:

1. The optional anemometer is to be mounted separate to a pole. Could be same pole as sensor.
2. Battery backup time depends on run mode and frequency of transmission.
3. Requires SIM card and suitable data plan on AT&T or T-mobile.
4. Cloud based analytics can be developed with additional contract.
5. When removing SD card to obtain data, it is recommended to power off the sensor box prior to reinserting the SD card to avoid possible errors. If the system stops responding after inserting an SD card, power down the sensor and turn back on.

SENSOR SPECIFICATIONS

CO Detection Range	100 ppb – 25 ppm
CO Accuracy	+/- 100 ppb min or 50%
NO Detection Range	20 ppb – 25 ppm
NO Accuracy	+/- 20 ppb min or 50%
NO ₂ Detection Range	20 ppb – 25 ppm
NO ₂ Accuracy	+/- 20 ppb min or 50%
O ₃ Detection Range	20 ppb – 25 ppm
O ₃ Accuracy	+/- 40 ppb min or 50%
SO ₂ Detection Range	20 ppb – 25 ppm
SO ₂ Accuracy	+/- 20 ppb min or 50%
Response Times	60-90 seconds - CO, NO, NO ₂ , O ₃ , SO ₂
Detection Method	Electrochemical - CO, NO, NO ₂ , O ₃ , SO ₂
CO ₂ Detection Threshold	100-2000 ppm
CO ₂ Accuracy	+/- 200 ppm min or 50%
CO ₂ Response Time	15-30 seconds
CO ₂ Detection Method	NDIR Optical
PM2.5 Detection Threshold	1 - 1000 µg / m
PM2.5 Accuracy	+/- 10 µg / m ³ min or 50%
PM2.5 Response Time	15-30 seconds
PM2.5 Detection Method	Laser Scattering

Periodic Maintenance

Periodic cleaning of sensor openings of dust, zero point calibration, and single point calibration. User replacement of sensors is easily performed as needed.

Additional Included Sensor

Additional sensors can be added (external ports)



Front



Right Side

Left Side



Bottom



Back



851 Transport Drive
Valparaiso, IN 46383-8432

Phone: 888 4SENSIT
888 473 6748
219 465 2700

Fax: 219 465 2701
www.gasleaksensors.com

MADE IN THE USA
WITH GLOBALLY SOURCED COMPONENTS

SENSIT Technologies
is an ISO 9001:2015 certified company.



Distributed by:

