CROWCON
Detecting Gas Saving Lives

Sensit by Crowcon RAMP

Product Brochure

www.crowcon.com

CROWCON

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Robust, remote and reliable – Sensit by Crowcon RAMP is a lightweight, affordable multi-industry air quality monitoring solution.

Sensit by Crowcon RAMP

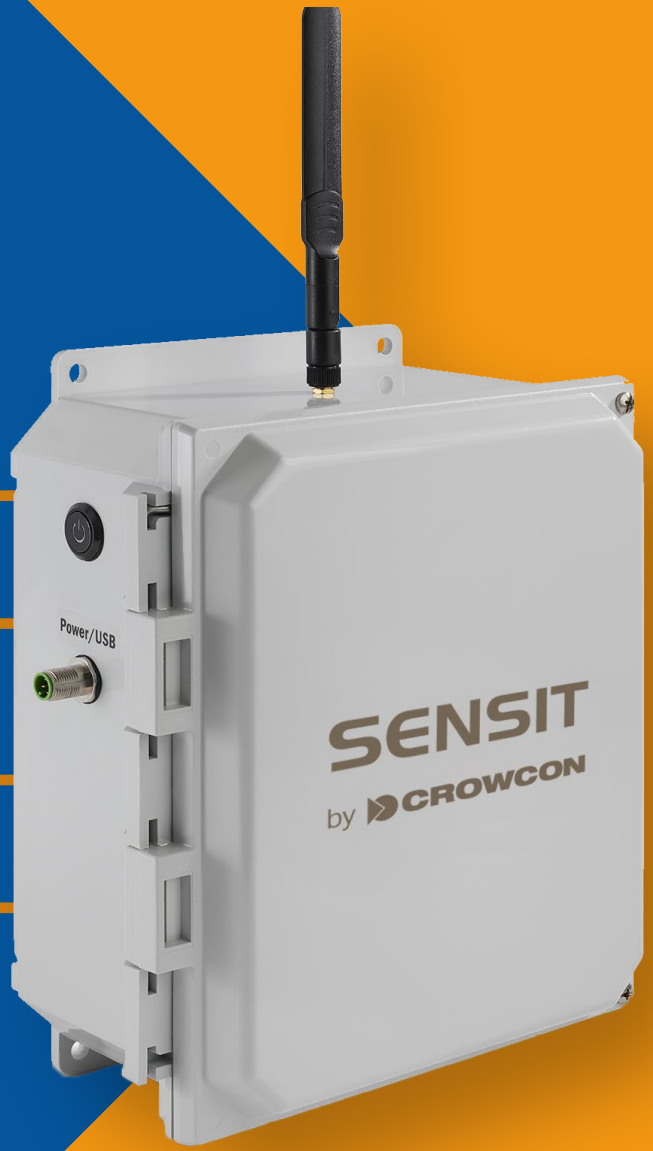
RAMP is a robust yet lightweight air quality monitoring platform, measuring up to five gaseous chemical pollutants, temperature, humidity, particulate matter, and meteorological conditions across diverse environments.

The unit comes with optional solar charging and easy deployment options, to provide remote, peace of mind operation.

The platform's reliability is proven across 16 countries, including the US, in local government, construction, environmental and academia applications. Electrochemical sensors provide PPB (parts per billion) resolution for CO, NO, NO2 O3, and SO2 gases, and the platform is portable with a long lasting battery life.

Features overview

- Suitability across multiple sectors
- Detection of up to five gaseous pollutants
- Lightweight, portable and compact with weather resistant casing
- Local or remote operation capabilities
- Reliability proven across 15 countries



Why?

Crowcon are market-leaders in the UK in gas detection, with over 50 years experience in the field.

RAMP is a proven product in the air quality market, with units installed in over 15 countries. With proven experience and expertise in gas detection Crowcon is now entering the air quality market to help solve the air pollution issue and provide a safer, cleaner, healthier future for everyone.

Standard features and Optional hardware

- Durable
- Weather resistant casing
- Long life low cost sensors
- Local or remote operation
- Wireless cellular
- SD card data backup
- Backup battery
- Solar panel
- Tripod

- Mechanical anemometer
- Ultrasonic anemometer
- Outdoor power supply
- Optional solar charging and easy deployment options, to provide remote, peace of mind operation
- Internal SD storage also within durable and robust casing to weather a range of external elements
- Versatile and trustworthy
- Robust, yet lightweight, low-cost air quality monitoring platform

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Applications

Heavy and waste industry: Occupational health monitoring and environmental compliance

Local Government: Environmental and community impact studies

Construction: Occupational health and industrial site monitoring

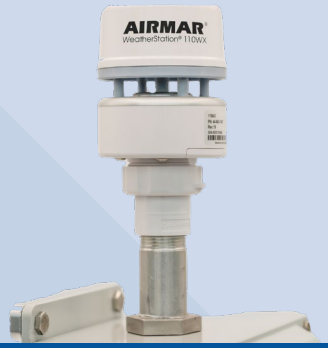
Environmental: Pollutant source identification

Academia: Pollutant research capability

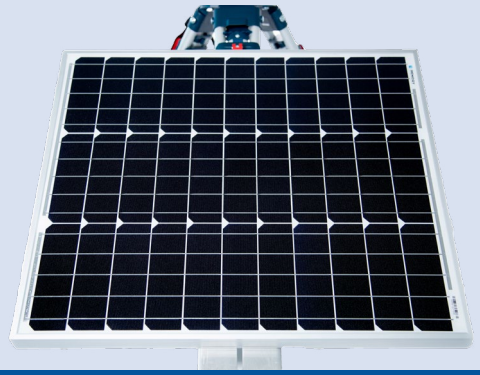
SENSIT Connect

SENSIT CONNECT is a web based application portal for viewing and managing SENSIT Environmental Monitors facilitating remote access to: real-time and archived data, data visualization tools, sensor health and settings, device location, tracking information, notification options and parameters, leak location identification and quantification estimates.

Featured accessories



Ultrasonic anemometer



Solar panel

Other Accessories

- Backup battery
- Tripod
- Mechanical anemometer
- Outdoor power supply

Datasheet

Dimensions	Fully assembled without anemometer or antenna D x W x H (5” x 10” x 12”)
Weight	Base unit: 3.4 kg
Enclosure	IP66 Polycarbonate
Operating Temperature	-20°C to 50°C
Operating RH	15-90%
Voltage Requirements:	18V – 24V DC charging (wired adapter or solar panel)
Current Requirements	1A max current draw when charging
Operating Runtime	3-15 days battery backup
Mounting	Attached mounting flanges
Data Outputs	Digital Wired Output (3.3V TTL - USB) Wireless (Cellular Included) Online Portal – www.sensitconnect.net SD Card Data Backup
Connections	Cellular (4G IoT Modem included) Local RF (LoRaWAN optional)
I/O ports	4 auxiliary ports for connection to modules eg sound modules
No. of Sensors	A total of upto 5 gases + PM can be detected. This includes: - Upto 4 electrochemical gas sensors (Typical: CO, CO_2, NO, SO_2, NO_2, O_3 Exotic: H_2S, NH_3, Cl_2, ClO_2, HCN, ETO) - 1 PID sensor for CO_2 or TVOC - Particulate sensor for PM1.0, PM2.5 andPM10
Meteorological Monitoring	Temperature and RH as standard, Anemometer optional (for wind speed, wind direction)

Sensor Specifications

Sensor	Detection Method	Range	Accuracy	Response Time
CO_2	NDIR Optical	100-2000ppm	±100 ppm	30 sec
CO	Electrochemical	20ppb-25ppm	±20ppb	60-90 sec
NO	Electrochemical	20ppb-25ppm	±20ppb	60-90 sec
NO_2	Electrochemical	20ppb-25ppm	±20ppb	60-90 sec
O3	Electrochemical	20ppb-25ppm	±20ppb	60-90 sec
SO_2	Electrochemical	20ppb-25ppm	±20ppb	60-90 sec
PM2.5	Laser Scattering	1-1000 µg/m^3	±10 µg	12-30 sec
PM10	Laser Scattering	1-1000 µg/m^3	±10 µg	12-30 sec

Above are standard ranges. Sensors are also available for higher concentration ranges at better accuracies and response times. Please contact Crowcon for more information.

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