

CROWCON
Detecting Gas **Saving Lives**

Sensit by Crowcon SPOD

Product Brochure

www.crowcon.com





Designed for near-fenceline applications, SPOD provides real-time, direct-reading capabilities for localised emissions and reliable, connected detection for VOC measurement. A dependable, low-cost, solar-powered choice for those ready to get proactive about the air quality of their emissions.



Sensit by Crowcon SPOD

SPOD effectively measures VOC emission plumes, whilst locating their original source, through a reliable, solar powered, low cost sensor system.

Combining wind and air pollutant concentration evaluations, SPOD utilises Next Generation Air Measurement (NGAM) to provide continuous, real-time monitoring without the need for laboratory analysis.

With a small footprint it is ideal for near-fenceline applications and can be remotely operated for ease of use.

Features overview

Real-time Continuous Monitoring

Modular Data Transmission through Cellular (4G IoT default) or local RF

Total VOC Output

Auxiliary Port for Automated Sampling

Solar Compatible with Integrated Battery Backup



Why?

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

SPOD is a proven product in the air quality market, with units installed extensively in multiple heavy industry applications. Volatile Organic Compounds (VOCs) cause significant harm to the atmosphere, contributing to the formation of ozone and fine particulates. Crowcon is keen to ensure harmful gas measurement and detection, and empower those in the relevant industries to act now to prevent further environmental damage.

Standard features and Optional hardware

- Modular data transmission
- Cellular (4G IoT default)
- Local RF (optional)
- Total VOC output (variable range)
- Real time continuous monitoring
- Auxiliary port for automated sampling for laboratory analysis
- Solar compatible with integrated battery backup
- SD card data backup
- Durable, weather resistant housing
- Outdoor power supply
- Consister valve controller & sorption tube pump



Applications



Refineries, Chemical & Petrochemical: Fenceline emissions monitoring



Construction: Large-scale outdoor air monitoring



Community Stations: Community monitoring adjacent to industrial sites



Industrial Sites: Emissions location sourcing, community, compliance and regulatory monitoring

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

- Tripod
- Outdoor power supply
- Canister valve controller
- Sorption tube pump
- Expansion battery pack
- Particulate matter

Datasheet

Dimensions	Fully assembled without anemometer or antenna D x W x H (6" x 8" x 16")
Weight	Base unit: 3 kg
Enclosure	IP66 Polycarbonate
Operating Temperature	-10°C to 50°C
Operating RH	15-90%
Voltage Requirements:	18V – 24V DC Charging (wired adapter or solar panel)
Current Requirements	2A max current draw when charging
Operating Runtime	3-8 days battery backup
Mounting	Attached mounting flanges, tripod optional
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	1 auxiliary port for connection to modules or accessories (eg cannister, sorption tube)
No. of Sensors	TVOC PID sensor as standard Optional MOS, electrochemical CO and Particulate sensors available on request
Meteorological Monitoring	Temperature and RH as standard, Mechanical anemometer as standard (for wind speed and direction), ultrasonic anemometer optional

Sensor Specifications

Sensor	Detection Method	Range	Accuracy	Response Time
TVOC	PID	10-3000ppb	±20ppb	30-60 sec
MOS	Metal Oxide	Variable	Variable	15-30 sec
CO	Electrochemical	100-2000ppm	±5ppm	60-90 sec
PM2.5	Laser Scattering	1-1000 µg/m ³	±10 µg	12-30 sec

Please contact Crowcon for more information.



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