

# SENSIT<sup>®</sup> SPOD

VOC EMISSIONS AND AIR POLLUTANT MONITORING SYSTEM

**DETECT, LOCATE and  
CONTINUOUSLY MONITOR**



COMPATIBLE WITH



Distributed By:



Optics by ACUTECT

# SENSIT<sup>®</sup> SPOD

## VOC EMISSIONS AND AIR POLLUTANT MONITORING SYSTEM

### A REMOTE AIR QUALITY MONITORING PLATFORM & POLLUTION DATA MANAGEMENT SYSTEM



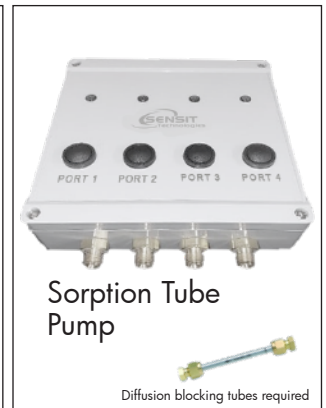
The **SENSIT<sup>®</sup> SPOD** is a low-cost, solar-powered sensor system that combines wind and air pollutant concentration measurements to detect VOC emission plumes and help locate the source of emissions.

With a small footprint, the user-friendly **SENSIT<sup>®</sup> SPOD** is designed for near-fenceline applications where localized emissions may be present. This Next Generation Air Measurement (NGAM) sensor offers real-time continuous monitoring and direct-reading, without laboratory analysis at a lower cost than traditional methods.

The **SENSIT<sup>®</sup> SPOD** can be combined with automated sample collection hardware to collect evacuated canisters or sorption tubes for later quantitative analysis.



**SENSIT<sup>®</sup> SPOD** offers an optional Ultrasonic Anemometer for wind speed, direction, temperature, humidity, and pressure.

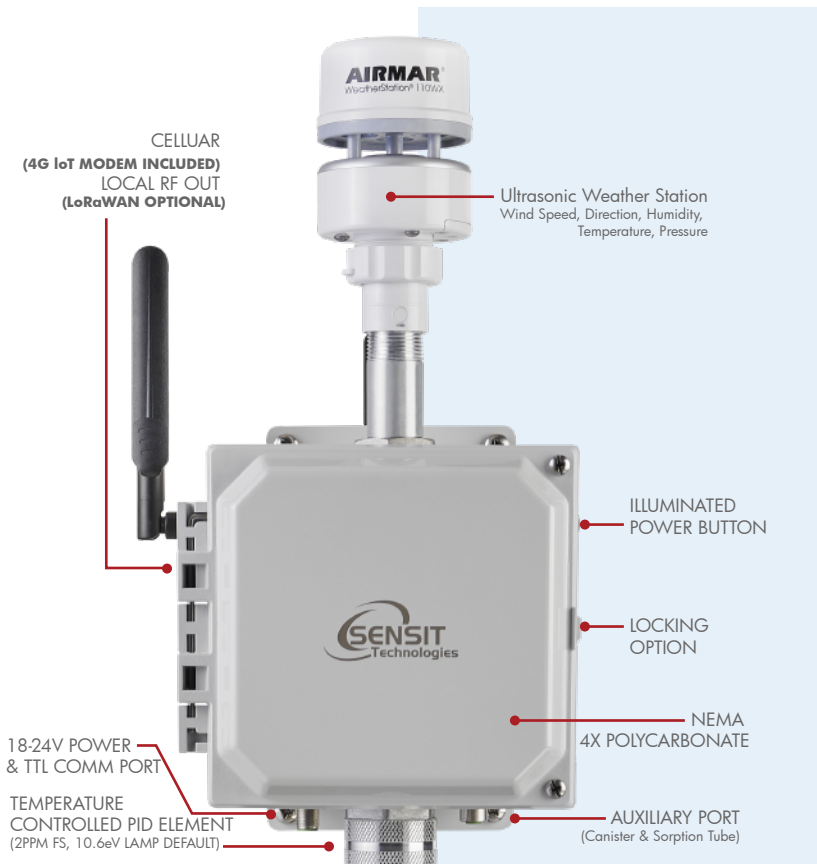


### STANDARD FEATURES

Real-time Continuous Monitoring (Local or Remote)
Modular Wireless Data Transmission
Durable, Weather Resistant Housing
SD Card Data Backup
Integrated Battery (Solar Ready)

### APPLICATIONS

<b>Oil and Gas Production</b>	Fugitive and Process Emissions
<b>Municipal Government Services</b>	Hazardous Pollutants/Nuisance Odors
<b>Industrial Health, Safety, &amp; Compliance</b>	Industrial Site Fenceline Emissions Monitoring
<b>Environmental</b>	Ground-level Ozone Precursors
<b>Emergency Response</b>	Spills, Leaks, Explosions



## STANDARD KIT

USB Adapter  
Charging Cable

## OPTIONAL HARDWARE:

Solar Panel  
Tripod  
Ultrasonic Anemometer  
Outdoor Power Supply  
Canister Valve Controller  
Sorption Tube Pump  
Expansion Battery Pack  
Particulate Matter



## PRODUCT SPECIFICATIONS

**Size:** Fully assembled without anemometer or antenna D x W x H (6" x 8" x 16")

**Weight:** Base unit: 6.5 lbs

**Operational Temp:** -10°C to 50°C

**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:** 2-5 Days Battery Backup

**Operating Temp:** -20°C to 50°C

**Data Outputs:** Digital Wired Output (3.3V TTL - USB) | Wireless (4G IoT Cellular Included) |  
Optional Analytics on Server | SD Card Data Backup

## SENSOR SPECIFICATIONS

SENSORS	DETECTION METHOD	LAMP ENERGY (eV)	RANGE (STANDARD)	ACCURACY (STANDARD)	RESPONSE TIME (STANDARD)
ION - HS	PID	10.6	10 - 3000 ppb*	±20 ppb min or 20%	30-60 sec
ION - XF	PID	10.6	0.1 - 30 ppm*	±0.2 ppm min or 20%	30-60 sec
ION - 10.0	PID	10	0.5 - 100 ppm*	±1 ppm min or 20%	30-60 sec
ION - 11.7	PID	11.7**	1-1000 ppm*	±5 ppm min or 50%	30-60 sec
MOS	Metal Oxide	-	Variable	-	15-30 sec
CO	Electrochemical	-	100-2000 ppm	±5 ppm min or 50%	60-90 sec
PM2.5	Laser Scattering	-	1-1000 µg/m3	±10 µg min or 50%	15-30 sec

\* Range defined as PPB Isobutylene | \*\* Reduced lifetime for high energy lamp (~3 month)

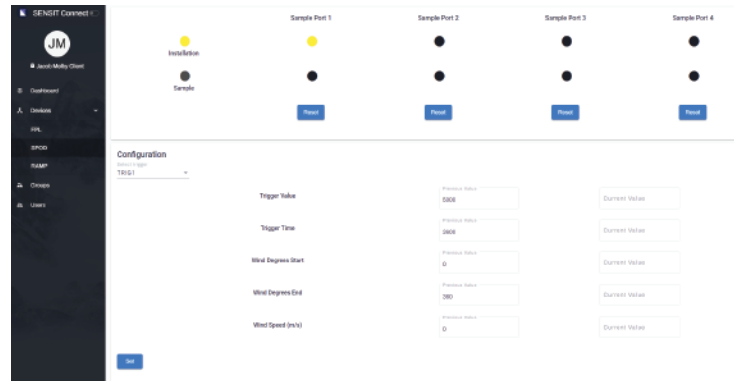
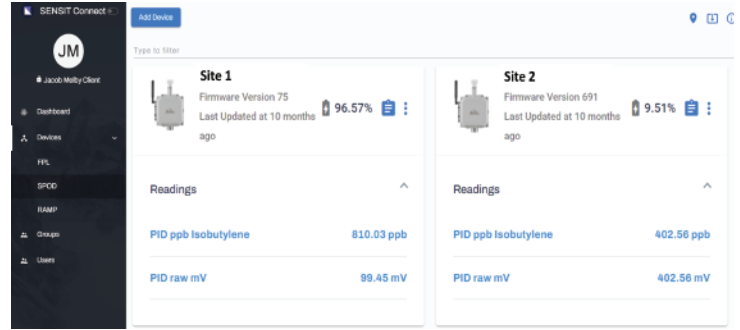


is a web-based application portal for viewing and managing **SENSIT** Environmental Monitors.

This portal allows remote access to: real-time and archived data, data visualization tools, sensor health and settings, device location and tracking information, notification options and parameters, and can assist with leak location identification and quantification estimates.

### SENSIT® SPOD Accessories & Replacement Parts

SPOD (ION XF - PID) without Anemometer	Part # 937-00000-01
SPOD (ION XF - PID) with Anemometer	Part # 937-00000-51
(ION HS - PID) without Anemometer	Part # 937-00000-02
SPOD (ION HS - PID) with Anemometer	Part # 937-00000-52
Domestic Cellular Activation	Part # 500-SPOD0-01
Domestic Web Access Activation	Part # 500-SPOD0-10
Solar Panel	Part # 870-00113
Tripod	Part # 870-00132
USB Adapter	Part # 870-00116
Canister Valve Controller	Part # 870-00118
Latching Stainless Valve	Part # 870-00119
Canister Pressure Assembly	Part # 870-00172
Sorption Tube Pump	Part # 870-00133
Charging Cable	Part # 871-00071
PM2.5 and Canister Module	Part # 882-00175



**MADE IN THE USA**  
WITH GLOBALLY SOURCED COMPONENTS

SENSIT Technologies is an ISO 9001:2015 certified company.



Distributed by:



**DIAMOND  
SCIENTIFIC**

625 Peachtree Street  
Cocoa, FL 32922  
Phone: 1-321-223-7500

info@diamondsci.com  
www.DiamondSci.com

