



# SWAN ENVIRONMENTAL

## MONITORING SOLUTIONS



### OUR GLOBAL PARTNERS



Met One  
Instruments, Inc.



## Ozone Precursor VOC Analyser

- AirmOzone (Auto GC system with detectors like FID) is designed to analyze Volatile Organic Compounds from C<sub>2</sub> to C<sub>12</sub>, also called Ozone precursors.
- Detection Limit < 0.05 ppb
- Has a H<sub>2</sub> generator / N<sub>2</sub> generator
- PAMS 56/TO14 & TO 15
- Airmopump sampling
- Peltier effect: for cooling
- Airmopure : air generator
- Cabinet systems



## Portable Beta Attenuation Mass Monitor

- E-BAM is a Portable, Real-Time Beta Gauge for PM<sub>2.5</sub> and PM<sub>10</sub> Particulate measurements.
- Provides truly accurate, precise, real time measurement of fine particulate matter automatically.
- Rugged, portable, battery operated, and deployable in 15 minutes.
- Ambient sampling provides accurate measurement of semi-volatile nitrates and organic compounds.



## Speciation Samplers

- Portable integrated ambient particulate sampling system.
- Two models provide a choice for compliance monitoring: SASS is a 5 channel sampling system and SUPER SASS is 8 channel, multiple event sampling system.
- Contamination free Canister, Solar Radiation shield, and Modular design.
- New multi-cell denuder and multiple filter medias.
- Automatic Volumetric Flow Controllers
- Each Channel may be operated independently
- Advanced Field Audit Screens



SASS

## Environmental Particulate Monitor

- Simultaneously measure size-segregated mass fraction concentrations corresponding to PM<sub>1</sub>, PM<sub>2.5</sub> Respirable, PM<sub>10</sub> and Total PM size fractions. MCERTS certified
- Minimal set-up, New tri-pod mount capability
- Custom alarm settings for alerts anytime.
- Aerosol concentration range 0.001-150 mg/m<sup>3</sup>
- Environmentally protected, tamper-proof enclosure
- Cloud Data Management System



## Remote Dust Monitor / eSampler

- Remote Dust Monitor / eSampler provides real time particle concentration measurements in both indoor and outdoor environments.
- Measures particulate concentration using a highly sensitive forward scatter laser nephelometer,
- Measurement range : 0 to 100 mg/m<sup>3</sup>
- Has flexible serial ports and analog outputs to support various data collection systems.



## Sulfur / Mercaptans / Odour Monitor (Process Monitoring)

- EnergyMEDOR is based on automatic and isothermal gas chromatograph principle.
- Dedicated solution for odorant Sulfur species in natural gas
- For online analysis and monitoring of Sulfur compounds (H<sub>2</sub>S, Mercaptans & Sulphides) in natural gas.
- Specific wet cell detector
- No interference from other compounds
- Modifiable threshold alarms – High / Low alarm
- Useful for Natural Gas Leak Detection by Injected Odorant Monitoring



## Photoacoustic Multi Gas Analyser

- Measurable gases : Anesthetics, CFCs & PFCs, Corrosives (at low levels), Hydrocarbons, Inorganics and VOC's. Has Sub-ppm to Sub-ppb detection limits
- Response time from 5 seconds to few minutes
- High dynamic range and stable operation
- Intuitive user interface
- Built-in display numerical and graphical results.
- Remote operation via tablet, smart phone



## Continuous Black Carbon Analyser

- Measures black carbon through optical attenuation and absorption principles in both the infrared and ultraviolet spectral regions. (at 10 different wavelengths simultaneously)
- Offers improved traceability compared to traditional filter-based optical techniques through its unique factory calibration process and through the incorporation of standard EPA-style sampling inlets.
- Simple, reliable, cost effective and produces defensible BC (Black Carbon) data with high time resolution.



## Ambient Multi-Pass UV Optical Spectrometer

- Portable / Online models available
- Novel optical design gives up to 13 gases simultaneously to ppb levels.
- The only real-time, portable detection analyser on the market offering such high accuracy.
- Data logging via USB: ideal for field monitoring.
- Both fixed and portable.
- Key detectable gases: BTEX, O<sub>3</sub>, NO, NO<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub>, Styrene, Formaldehyde, 1,3-Butadiene etc.
- Both battery and 230 VAC operations are possible
- Applications include leakage detection and various industrial hygiene applications (monitoring of VOC's, TIC's etc.).



## Air Quality Monitoring System for Smart Cities

- Micro AQMS enables to monitor the quality of inhaled air in Smart Homes & Offices, Smart cities on Smart Phones.
- It tells about air quality now, past and predict the future for any location and time, thus giving comfort and health.
- Measures SO<sub>2</sub>, NO<sub>2</sub>, CO, CO<sub>2</sub>, O<sub>3</sub>, PM<sub>2.5</sub>, PM<sub>10</sub>, Temperature., Relative Humidity, Noise, Light, UV, Pressure.
- Housed inside a shell and can be mounted on a pole easily.
- 8 GB internal memory.
- Communicates to cloud via Wi-Fi / GSM(3G/4G).
- Real Time hot spot analytics. Advance Analytics & Trends. Mobile & Email Alerts.
- Solar powered battery.



## Air Blast & Vibration Monitoring System

- For compliance monitoring of Air Blast & Vibration for mining & construction industries.
- Comprises of field monitoring systems and the web portal that constantly shares data.
- SMS and/or email notification of blast events including peak event data.
- Microphone and integrated pre-amplifier provide an ultra-low frequency response and extremely high sensitivity for air blast measurements.
- Continuous monitoring with minimum 11 days high resolution data storage buffer.



## Noise Monitoring System

Equipped with a class 1 sound meter and the latest wireless technology Noise Hound enables noise metrics and live audio streaming reliably and securely to users providing insight into operations and their potential impacts on the surrounding noise receptors. Coupled with a web based portal and reporting package the Noise hound can be accessed from a PC or hand held smart device anywhere, anytime, doubling as both a noise compliance and noise management tool for operations.



## Continuous VOC Monitor

- Fixed, field-configurable, Continuous detector for VOC's.
- Pre-programmed correction factors for more than 200 compounds
- Graphic display and LED status indicator for fault and alarm conditions
- Configurable low, high, and fault relays can trigger alarms or process controls
- Humidity compensation. Explosion-proof enclosure.



## Green House Gas Analyser

- The Portable FTIR technology is well-suited for the measurements of greenhouse gases over wide ranges.
- All key gas compounds can be measured in seconds: N<sub>2</sub>O, CH<sub>4</sub>, CO<sub>2</sub>, H<sub>2</sub>O, CO and NH<sub>3</sub>.
- Can detect up to 25 gases simultaneously providing validated results in 25 seconds.
- The analyzer is operated with the versatile Calcmet™ software that offers online viewing of results and powerful tools for subsequent analysis of past measurements.
- Lightweight, Simple to use, Low operating costs
- Both battery and 230 VAC operations are possible.



## Portable Gas Analyser

- Transportable gas measuring system for flexible field use
- NDIR: Single-Beam principle, cuvette heated to 60 °C
- Housing: ASA+PC-FR plastic, IP 54
- Measuring Components: CH<sub>4</sub> and CO<sub>2</sub> (IR) / H<sub>2</sub>S and O<sub>2</sub> (EC)
- Measuring Ranges: CH<sub>4</sub> = 0–100 % vol, H<sub>2</sub>S = 0–2000 ppm, CO<sub>2</sub> = 0–65 % vol, O<sub>2</sub> = 0–25 % vol
- Built-in sample gas pump



## Handheld SF<sub>6</sub> Leak Detector

- Smart probe design and calibration
- Fault, Warning and operator error alarms.
- Both digital and curve display of gas concentration
- With USB communication port for reports and analysis.



## SF<sub>6</sub> Trace Gas Leak Detector

- World's advanced Electron Capture Detector (ECD) principle is used.
- Responds to SF<sub>6</sub>, refrigerants and other electron capturing compounds.
- High accuracy, Ultra High sensitivity & stability, Fast response and recovery
- Locates position of leaks
- Quantifies the leak rate. Displays leak rate or concentration



## SF<sub>6</sub> Portable Multigas Analyser

- Designed for controlling and monitoring the quality of SF<sub>6</sub> in medium and high voltage gas insulated electrical equipment.
- Modular design allows for bespoke sensor combination upon request.
- Lithium battery provides up to eight hours of operation.
- Housed within a heavy-duty IP66 case with a total weight of 8.5 kg.



## Portable SF<sub>6</sub> Leak Detector

- Use the world's most advanced NDIR sensor, high precision, good stability, long service life;
- Built-in 8GB of memory for 10 years of data storage;
- Equipped with a 4.3-inch touch screen



## GASES

### Wireless Portable Multi Gas Monitor

- Optimal one-to-six-gas monitor. Available in pumped and diffusion versions.
- Over 25 interchangeable sensor options, including PID4 for VOC's, NDIR and catalytic for combustibles & NDIR for CO<sub>2</sub>.
- Wireless access to real-time instrument readings and alarm status from any location.
- Large display, Continuous Data Logging. (6 months, 5 sensors).



### Handheld VOC Monitors

- Patented auto-cleaning sensor and Reflex PID Technology™.
- Wide measuring range of 0-15,000 ppm.
- Available with 1 ppb sensitivity also.
- Correction factors for more than 200 compounds.
- IP 65/67 water-proof and dust-tight.
- Built-in man down alarm.
- Large display.
- Accurate & Reliable Measurements.



### Benzene Monitor

- One of the most advanced compound-specific monitor.
- Accurate measurement of benzene from 10 ppb to 200 ppm and other VOC's up to 10,000 ppm.
- 60-second response for benzene measurement snapshot.
- Unique 15-minute benzene STEL measurement.
- Excellent versatility for entry pre-screening, marine spill response, and refinery down-stream monitoring.
- Instrument also available with real time connectivity which can relay readings & alarm status upto 2 miles to a transmitter.



### Handheld Odour Meter

- Most popular simplified tool for odour analysis, which enables to indicate the relative strength and odour classification numerically by comparing odour gas & purified air.
- Reading shown on display is calculated based on our principle.



### Handheld Biogas Analyzer

- Measures up to 6 gases measuring: CH<sub>4</sub>, CO<sub>2</sub>, H<sub>2</sub>S, O<sub>2</sub>, H<sub>2</sub>, CO gases, even biogas flow monitoring
- Lithium battery. Can be used without AC power.
- Blue tooth communication to upload testing data into Mobile by specified APP directly. GPS positioning & location



### Portable Infrared Gas Detector

- Continuous measurement of gases like CO<sub>2</sub>, CO, SF<sub>6</sub>, CH<sub>4</sub>, C<sub>2</sub>H<sub>6</sub>, C<sub>3</sub>H<sub>8</sub>, C<sub>4</sub>H<sub>10</sub>, C<sub>2</sub>H<sub>2</sub>, C<sub>2</sub>H<sub>4</sub> etc.
- High sensitivity, quick response, good stability, automatic modification of zero drift, speech alarm output, etc.
- Portable and comes with display.



## DUST / PARTICULATES

### Handheld Real Time Aerosol Monitor / Counter

Small, handheld, battery operated, and completely portable unit. Provides both particle counts or mass PM measurements as stored data logged values, real-time networked data, or printed results. All five important mass size ranges (PM<sub>1</sub>, PM<sub>2.5</sub>, PM<sub>7</sub>, PM<sub>10</sub>, and TSP) are displayed in mass mode as well as two popular cumulative particle sizes (> 0.5 and > 5.0 microns) in particle mode.



### Handheld Particle Counter

- Measures up to 6 channels of simultaneous data as well as temperature and relative humidity.
- Measures 0.3 µm to 25.0 µm.
- 0.1 CFM (2.83 LPM) flow rate
- Long-life Laser Diode Technology
- View data & generate reports on screen, USB, printer real time.



### Innovative Handheld Particle Monitor

Displays 6 particle sizes simultaneously (0.3, 0.5, 1.0, 3.0, 5.0, 10.0µm) in cf or m<sup>3</sup>. Large, 4.3-inch full-color touchscreen. 0.3 micron minimum sensitivity. Store up to 10,000 measurements. Compact and Light weight. Remote control software.



### Portable Piezobalance Dust Monitor

Measures PM<sub>10</sub>, Respirable, or PM<sub>2.5</sub> particle matters. Real-time measurements of dust concentration.



Data logging up to 500 measurements. The Data can be reviewed on-screen, printed or downloaded to a computer. Has a simple cleaning mechanism for easy maintenance.

### Aerosol Monitor

Multi-channel, battery-operated, data-logging, light-scattering laser photometer. Can simultaneously measure both mass and size fraction. Real-time dust monitoring. STEL alarm setpoint. Touchscreen interface. Concentration range 0.001 to 150 mg/m<sup>3</sup>



### Personal Aerosol Monitor

Small, single-channel, portable, battery-operated, data-logging, light-scattering laser photometer. Provides real-time aerosol mass concentration readings for PM<sub>10</sub>, PM<sub>5</sub> (China Respirable), PM<sub>4</sub> (Respirable), PM<sub>2.5</sub>, PM<sub>1</sub> and 0.8 µm Diesel Particulate Matter (DPM). Robust impactors for higher mass concentration range. Audible and visual alarms.



### Portable Environmental Particulate Air Monitor

Uses light scattering to measure the particle concentration and provide immediate real time determinations and data recordings of airborne particle concentration in milligrams per cubic meter (mg/m<sup>3</sup>). Interchangeable sampling heads allow PM<sub>10</sub>, PM<sub>2.5</sub>, or PM<sub>1.0</sub> monitoring.



## Fixed / Portable IAQ Monitor

Detects: PM<sub>2.5</sub> & PM<sub>10</sub>, Temperature, Relative Humidity, CO<sub>2</sub>, HCHO, TVOC's, CO, O<sub>3</sub>, SO<sub>2</sub>, NO, NO<sub>2</sub>, NH<sub>3</sub>, O<sub>2</sub>, H<sub>2</sub>S etc. Easy to monitor all IAQ-Pro information at local area network via APP. Connect with LCD display, Cloud computing.



## 3 in 1 IAQ Monitor

- Simple wall-mount or duct-mount
- Monitor CO<sub>2</sub> or VOC's, Temperature and Relative Humidity
- Menu-driven, customizable, easy-to-navigate display
- Green attributes such as obtaining LEED credits.
- Modbus Communication



## PM<sub>2.5</sub> Indoor Air Quality (IAQ) Monitor

- Provides real-time and reliably accurate measurement of indoor PM<sub>2.5</sub> dust concentrations, one of the greatest health risks in the world today.
- Simple wall mount installation.
- At-a-glance interpretation of data, correlates to the Air Quality Index.



## CO<sub>2</sub>, RH & Temperature Display

- Simultaneously measures and records CO<sub>2</sub>, Relative Humidity and Temperature.
- Large, easy-to-read display
- Can be configured directly with buttons and stored data can be exported to a USB stick for analysis.
- **Applications:** Indoor Air Quality of Classrooms, Meeting Rooms, Open-Plan Offices, Shopping Centres, Fitness Studios etc.



## CO<sub>2</sub> Transmitter

- Measures CO<sub>2</sub> concentration range of 0-2000ppm.
- For ventilation control in residential properties, offices, classrooms, cinemas, public rooms, etc.
- Duct mount design for insertion into ducts and vents.



## Bio Sampler Kit

Designed to operate with a sonic flow BioLite Pump. It's three tangential nozzles act as critical (sonic) orifices to allow high and constant collection efficiency of total or viable bioaerosols.

- Patented\* swirling liquid method minimizes re-aerosolization, reduces particle bounce, and preserves microorganism integrity and viability
- Can be used with non-evaporating collection liquids such as ViaTrap® mineral oil that have a viscosity much higher than water



## Carpet Sampling Kit

Collect fungal spores or asbestos from carpets and other dusty areas using SKC Microvacuum Cassettes as specified in ASTM Methods D5755 and D5756.



## Handheld IAQ Monitor

Inexpensive multimeter that simultaneously measures and records CO<sub>2</sub>, humidity and temperature. It also calculates the dew point and wet bulb temperature. Data can be downloaded, saved and analyzed.



## Corporate Air Care Monitor

Measures 0.3 to 25 µm particles with mass concentration and stores indoor air quality measurements of Temperature, Relative Humidity, CO<sub>2</sub>, and TVOC. Meets ISO 21501-4 and JIS B9921. Touch screen display. Connect using Ethernet, USB or Wireless 802.11 b/g, RS485 or RS232.



## IAQ Monitor - Built In Standards

- Measures upto 7 different parameters simultaneously including Particulates, VOC's, Toxic Gas, CO<sub>2</sub>, Relative Humidity, Temperature & Air Velocity.
- Time history data logging and displays instantaneous levels, Min, Max, AVG, STEL & TWA.
- Particulates in 4 different sizes by rotary Impactor.
- Gravimetric analysis is possible by built in filter cassette.



## Anemometers

- Can simultaneously measure Air Velocity, Air Flow, Static Pressure, Temperature and Humidity of the indoor environment.
- It is ideal for HVAC ventilation testing and balancing, laboratory control, fume hood performance testing, IAQ investigations, and industrial testing.



## Biological Air Sampler

A simple well known air sampler to be used by Industrial Hygienists for "SBS" (Sick Building Syndrome) and HVAC. Record data automatically. Data download by Bluetooth, cable to a PC or android phone. IP 65 certified. Battery with charger.



## Bio Stage

- BioStage® single-stage viable cascade impactors operate on the principle of inertial impaction
- Meets the NIOSH and ACGIH recommendations for sampling indoor and outdoor air for viable microorganisms including bacteria and fungi.



## VersaTrap Spore Trap Cassettes

VersaTrap® Sampling Cassette, 37 mm, with microslide, for aerosol monitoring of mold spores, fibers, asbestos, and fungi.

Allows for quantitative analysis of biological and inorganic particles for most airborne aerosol screening applications.



## PHYSICAL EXPOSURE MONITORING

### Sound Level Meters

Sound level meters are designed for measurement of workplace noise levels to determine the degree of hearing protection that may be required. It offers an integrating feature that computes the average sound pressure level.

- Sound Detector is a basic Integrating Sound Level Meter
- Sound Examiner is with Data Logging and PC interface by using powerful DMS Software
- Sound Professional is widely used for advanced research applications with 1/1 & 1/3 Octave Filter analysis.



### Noise Dosimeters

Helping Industrial Hygiene and Safety professionals to monitor noise exposure levels.

Edge series personal noise dosimeter come with advanced cable-free technology and more ergonomic way to monitor noise levels. This innovative dosimeter designed for direct shoulder mount with dual dosimeters in one unit.



### Heat Stress Monitors

Wet Bulb Globe Temperature Heat Stress Monitors calculate and display a WBGT Index value that considers the effects of Ambient Air Temperature, Humidity, Air Flow (which provides an evaporative cooling effect to the body) and radiant heat from sources such as the sun, furnaces, ovens, and boilers.

- QT32, QT34, and QT36 heat stress monitors are with conventional wet bulb sensor.
- QT 44, 46 and 48N heat stress monitors are engineered with waterless wet bulb sensor.



### Human Vibration Monitor

- Six-channel Human Vibration Meter and Analyser.
- Meets requirements of ISO 8041:2005, ISO 2631-1, 2&5, ISO 5349.
- Enables simultaneous measurements with two triaxial accelerometers (e.g. both-hands vibration or triaxial SEAT transmission measurements).



### Light Meter

Easy View Digital light meters are for industrial and building audit usage with footcandle and Lux measurement modes.

- Quality of light in schools and the work place affects the Quantity & Quality of student and worker performance.
- Ensures the level of brightness in direct sunlight or any high intensity light source.



### Radiation Meter

- Contamination meter for alpha, beta and gamma
- Designed to improve the safety of workers in the control areas of nuclear power plants, reprocessing plants, research centers, hospitals and to public bodies like the police, fire brigades or the military.
- Simple, fast & easy to detect possible contamination spots.
- Four alarm thresholds are pre-programmed.



## CHEMICAL EXPOSURE MONITORING

### Personal Air Samplers

Designed to collect air samples into different sampling media based on various hazards and guidelines.

Sampling pumps are available with variety of Flow ranges (5ml/min to 50L/min) and sampling features to suit various applications.



### Sampling Media

- Filters are made with MCE, PVC, PTFE, Polycarbonate, Silver, Gelatin or Glass Fiber
- Aluminium and Plastic cyclones for Respirable Dust Sampling.
- Sampling Bags are made with Tedlar, Flex film, Flex foil for various applications.
- Sorbent Tubes filled with Charcoal, Silicagel, Anasorb, Tenax or XAD-2 etc
- Glass Midget Impingers to collect air contaminants into a liquid medium



### Cascade Impactor

Sioutas Impactor and SKC Leland Legacy® Sample Pump operated at 9 L/min ensure precise particle separation on the filters at each stage. Patented Sioutas\* Cascade Impactor collects particles in five size ranges: > 2.5 µm, 1.0 to 2.5 µm, 0.50 to 1.0 µm, 0.25 to 0.50 µm, and < 0.25 µm.



### Direct Reading Instruments

#### HAZ-DUST I

Real-Time particulate monitor provides accurate and instantaneous data on airborne particle concentration. Designed for industrial hygiene, indoor air quality, and hazardous materials investigations



#### HAZ-DUST IV,

with new infrared detector, displays quick breathing zone measurements of aerosol and dust for industrial hygiene and environmental air investigations. Possible specific particle fractions by inhalable, thoracic, or respirable sampling heads. An in-line 37-mm cassette is used to do filter sample for gravimetric or chemical analysis.



#### Realtime Wearable Particle Sensor

Measures respirable dust < 4 micron. Gives Particle counts and mass concentration. Has automated pump control and calibration. Web enabled control interface, no difficult buttons or sequences, Post sample analysis capability. Monitor Silica content directly using correlation factor



### Flow Calibrators

Defender Series of Primary flow calibrators for fast calibrations of personal sampling pumps.

Definer Series of Primary flow calibrators for fast, 1% of reading calibrations by including temperature and pressure compensation.



## Single Toxic Gas Detectors

- Detects H<sub>2</sub>S, CO, O<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub>, PH<sub>3</sub>, Cl<sub>2</sub>, ClO<sub>2</sub>, NO, NO<sub>2</sub>, HCN, ETO, O<sub>3</sub>.
- Equipped with internal vibrating alarm for high noise areas.
- Secure & accurate history with datalogging option.
- Water-resistant



## Personal VOC Detector

- Compact, personal wireless monitor.
- PID sensor accurately monitors over 300 VOC's.
- Built-in library of 190 correction factors for automatic reading in equivalent units.
- Water, dust and shock-resistant
- Built-in man down alarm



## Multi Gas Detectors - Upto 5 gases

- Protection from up to 5 potential atmospheric hazards.
- Monitors H<sub>2</sub>S, CO, O<sub>2</sub>, SO<sub>2</sub>, PH<sub>3</sub>, Cl<sub>2</sub>, NH<sub>3</sub>, NO<sub>2</sub>, HCN, ClO<sub>2</sub>, O<sub>3</sub> and combustibles
- Triple alarms (audible, visual, vibrating)
- Water-resistant



## Wireless Multi-Gas, Multi-Threat Detector

- Monitors up to seven threats, including Gamma Radiation, Toxics, VOC's, Combustibles & Oxygen.
- Wireless technology sends real-time data to command station up to two miles (3km) away.
- Ruggedized, Portable and weather-resistant
- Secondary radio module (Mesh) act as a communication Hub for other wireless devices.



## Wireless Gas Detection Network

- A turnkey, easy-to-deploy kit for up to 8 wireless detectors, which send real-time threat readings and man down alarms to an attendant standing outside the space — with no computer needed.
- Ready to use at the push of a button
  - Respond faster. Reduce worker stress
  - Optional: add PC, IoT



## Combustible & Toxic Gas Transmitter

- Provides comprehensive monitoring of Combustible, Toxic and Oxygen gas hazards in potentially explosive atmospheres - indoors and outdoors.
- Remote Toxic and Oxygen sensor mounting of up to 100 feet (30m) away from the transmitter.
- SS316L / aluminum explosion-proof housing
- IP66 as standard



## Infrared Open Path Flammable Gas Detector

- Fast response provides earliest warning
- High sensitivity allows low alarm set points
- Contamination resistant optics reduce the need for unscheduled maintenance
- Not affected by interference from water vapor
- Immune to catalytic poisons.



## Colorimetric Gas Detection Tubes

Gastec Detector Tubes indicate concentrations directly by calibrated scale printed on the tubes.

Detection Tubes are now available for more than 500 different applications.

Offer quick On-the-Spot measurement of various gases and vapors.



## Compressed Breathing Air Quality Monitoring Kit

Easily, quickly, and simultaneously measure CO, CO<sub>2</sub>, Water vapour, and Oil mist contained in compressed breathing air (cylinder or compressor). Easy measurement without any electricity or power source.



## Alcohol Breath Analyser

Alcohol Breath Analyzer for a variety of applications in roadside testing, workplace safety, and the rehabilitation programs.

- Certified according EU standard EN 15964
- Mouthpieces with certified biocompatibility
- Stores 9,999 measured values with date and time



## Portable FTIR Gas Analyser

- To check the quality of ambient air around industries, institutions, research labs etc.
- Portable ambient air analyzer based on FTIR principle
- Can detect up to 25 gases simultaneously providing validated results in 25 seconds.
- Access to a reference library of over 250 gases and 50 gas measurement capability including H<sub>2</sub>O, CO<sub>2</sub>, CO, NO, NO<sub>2</sub>, N<sub>2</sub>O, SO<sub>2</sub>, NH<sub>3</sub>, CH<sub>4</sub>, HCl, HF, VOC's etc.. Especially useful in situations where unknown gases are encountered.
- Both battery and 230 VAC operations are possible.



## Industrial Hygiene Kits

Industrial Hygiene Kits are designed to help in monitoring the Industrial Hygiene, Occupational Health & Safety parameters. Designed for use by a variety of people from industrial hygienists to first responders, in a wide range of situations from occupational health to safety applications.

- Industrial Hygiene Kits are available in three different configurations as Basic, Intermediate & Advanced kit.
- Best Tool for Multiple Parameter Monitoring.
- Rugged Carrying Case
- Cost saving Combi Pack



## Rapid Deployment Kit (RDK)

- Rapidly deployable wireless gas detection for hazardous threats
- Turnkey system for detection of hazardous toxic chemicals and radioactivity
- Includes 4 AreaRAE monitors and RDK Ruggedized Host Controller (Not the case for AreaRAE Plus / AreaRAE Pro)
- Up to 2 miles (3km) range for ISM 900Mhz
- Military-grade case. Easy to transport
- Standard GPS enable units and Optional for other monitors
- Scales up to 64 remote devices.



## FTIR based HAZMAT Analyser

- Portable FTIR analyzer is an ideal tool for accidents involving chemicals and other hazardous materials (HAZMAT) where fast and accurate gas measurements are required.
- The technology also enables the identification of unknown gases in the sample, which is crucial in both HAZMAT and CBRN situations where it is impossible to know beforehand exactly what the responders may encounter.



## Wireless Gas Detection Network

A turnkey, easy-to-deploy kit for up to 8 wireless detectors, which send real-time threat readings and man down alarms to an attendant standing outside the space — with no computer needed.

- Ready to use at the push of a button
- Respond faster. Reduce worker stress
- Optional: add PC, IoT



## Remote / Portable Controller

Enable remote, wireless access to real-time portable gas monitor readings. Monitor your gas detector network while away from the fixed controller with this portable device. Data and alarm status display. Connects to up to 16 monitors.



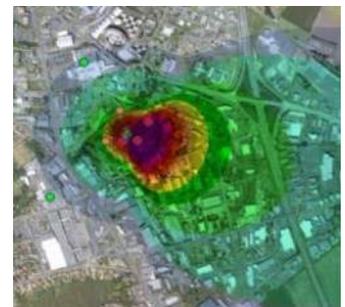
## Online Odor Monitor

- Unique technology able to monitor TVOC's, Odor unit, Sulfurs speciation
- Most sensitive e-nose of the market with detection lower than what human nose can detect (as low as 1 ppb for H<sub>2</sub>S)
- Automatic data validation using internal permeation tube to check data results
- Alerts when concentration levels exceed a specific defined value
- Remote access on analyzer and accessories



## Dispersion Modelling of Odour & Pollutant gases

- The vigiODOR solution is based on Plumair web platform.
- This unique solution allows to forecast and monitoring real-time the dispersion of odour and gas plumes (H<sub>2</sub>S, NH<sub>3</sub>, VOC, TBM, etc.) around industrial sites.
- Connected to the network of vigie-noses analyzers and to the weather station installed on-site, it provides real-time key information for optimised operation of facilities and efficient management of chemical and olfactory pollution.



## Chemcassette® Tape-Based Gas Detector

- With Chemcassette tape technology.
- Is capable of working as both a fixed and a portable unit.
- The monitor detects the ultrasensitive gases inherent in your operations including: Hydrides, Mineral acids, Oxidizers, Amine
- Use it to investigate suspected leaks
- Best tool for emergency response teams / Life Safety.
- Easy to choose the target gas



## Ultrasonic Weather Station

- Compact & lightweight multi-sensor instrument
- Measures essential weather parameters, which include: Wind Speed, Wind Direction, Rainfall, Barometric Pressure, Air Temperature, Relative Humidity, Solar radiation, Precipitation etc.
- No moving parts, and it is resistant to contamination and corrosion.
- Measures accurately and produces reliable data in demanding wind conditions & climates.



An ISO 9001:2015 Certified Company

# SWAN ENVIRONMENTAL PVT.LTD.

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