

ABOUT US

At Envirocon Instrumentation, we import and distribute instrumentation for occupational hygiene and environmental monitoring.

Since 1988 we have endeavoured to support and develop the occupational hygiene market in South Africa, continuously advocating for the improvement of employee/employer work environments for all industries.



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GilAir Plus Personal Air Sampling Pump



1-5100 cc/min

SENSIDYNE
Industrial Health & Safety Instrumentation

The most versatile and capable pump available today
- trusted by OHS professionals around the world.

Finally, one air sampling pump with

**All the features
you WANT and NEED**

- QUAD MODESM AIR SAMPLING TECHNOLOGY
- SELECTABLE AUTOMATIC FAULT RECOVERY
- WIDE DYNAMIC FLOW RANGE
- STANDARD TEMPERATURE & PRESSURE CORRECTION
- INTERNAL CONSTANT FLOW & PRESSURE CONTROL
- SUPERIOR DESIGN & COMFORT
- REAL-TIME CLOCK AND DATA-LOGGING

INNOVATION DELIVERED

The ultimate
air sampling
pump
delivering
enhanced
performance,
greater
versatility,
and superior
design and
comfort





ES - 412

portable
simultaneous

particulate
profiler

simultaneous
PM measurements
in one

Real time
PM2.5 & PM10



Introducing THE

UP & Operational in minutes

- 1 Extend and secure tripod legs.
Remove ES-412 from travel bag and extend folding antenna from the handle. Lock in place.
- 2
- 3 Mount on tripod. Secure with locking bolt.
Plug power cord into receptacle in the base. Power on.
- 4
- 5 The ES-412 profiler will begin sampling, with the first data set being transmitted to your computer within 15 minutes.

Features

- Remote Data – Locally Available on Personalized Web Page
 - Easy, Unlimited Data Sharing
 - Real Time Sensor Status
- Plug & Play – Internal Modem is Factory Configured & Activated
 - Global Connectivity with 550+ Carriers
 - Initial 3-Year Data Plan Included
 - Pre-Packaged in an IP64 Enclosure
 - Free Data Collection and Analysis Software
 - Power Supply & Cables Included
 - Folding Antenna for Compact Storage
 - Lightweight, Very Transportable.
 - Rapid Deployment



WHY SHOULD YOU CHOOSE THE SERIES 500?

- ✓ **Measure PM10 and PM2.5 simultaneously**
- ✓ **Add up to 30 different gaseous pollutants**
- ✓ **Data logged directly onto monitor base**
- ✓ **Audible alarm functionality**
- ✓ **Changing sensors takes seconds and can be done anywhere**
- ✓ **Remote sensor capability**
- ✓ **Long life lithium battery technology**
- ✓ **Zero and span calibrate in the field**
- ✓ **Free PC Software**
- ✓ **Connect direct to PC via USB**



Series 500

Portable Particulate Monitor



- ✓ **Active fan sampling ensures highest possible accuracy**
- ✓ **Automatic humidity compensation**

WHAT ARE THE SERIES 500 APPLICATIONS?

Ambient (outdoor) air quality surveys

Checking pollution "hotspots"

Validating air quality models

Indoor air quality testing

Personal exposure monitoring

Short term fixed monitoring



POLLUDRONE



Ambient Air Quality Monitoring System

About



Polludrone is a fully integrated air quality monitoring system that delivers reference equivalent performance. Polludrone is a comprehensive solution to monitor all the critical ambient environmental parameters related to air quality, noise, odor, weather, radiation. In addition, meteorological parameters like wind speed, wind direction, rainfall, flood levels, and visibility can be monitored using external modules for ground-level weather data. Polludrone is a highly accurate yet cost-effective solution – measuring criteria pollutants to WHO air quality limits yet costing 10x less than a traditional station based on analyzer technology.

The Polludrone air quality monitoring system is communication agnostic. The device works on various wired and wireless communication protocols like GSM, WiFi, LoRA, Sigfox, NBIoT to transmit the data on the Oizom cloud in near real-time. Additionally, it has an inbuilt memory backup to ensure no data loss in network failure. Polludrone works seamlessly with Oizom IoT Terminal. Users can visualize the data in a real-time dashboard, automated reports, and intelligent alerts on the platform. The data can also be accessed through Rest APIs for integration into 3rd party software and process automation. The Polludrone is your one-stop solution to monitor National Air Quality Index (NAQI).

The Polludrone measures all major ambient parameters like PM1, PM2.5, PM10, PM100, Carbon Monoxide (CO), Carbon Dioxide (CO2), Sulfur Dioxide (SO2), Nitrogen Dioxide (NO2), Ozone (O3), Hydrogen Sulfide (H2S), Ambient Noise, Light, UV, Temperature, and Humidity. The Polludrone uses our patented e-breathing sampling technology that offers higher accuracy and near-reference data. By creating a dense network of data points, the Polludrone is powered to generate hyperlocal pollution data.

Product Features

Patent Pending Technology



Works on innovative e-Breathing technology for higher data accuracy

Solar Powered



Capable of running independently on solar power

Network Agnostic



Wide range of connectivity options like GSM / WiFi / LoRa / NBloT/ Ethernet

Over-The-Air Updates



Automatically upgradeable from a central server without any onsite visit



Compact Design



Light-weight and compact system installed at 12-15 feet (3.5-5 m) height

Real-Time Data



Continuous monitoring and real-time data transfer at configurable intervals

Weatherproof



IP65 grade enclosure for endurance against harsh weather conditions

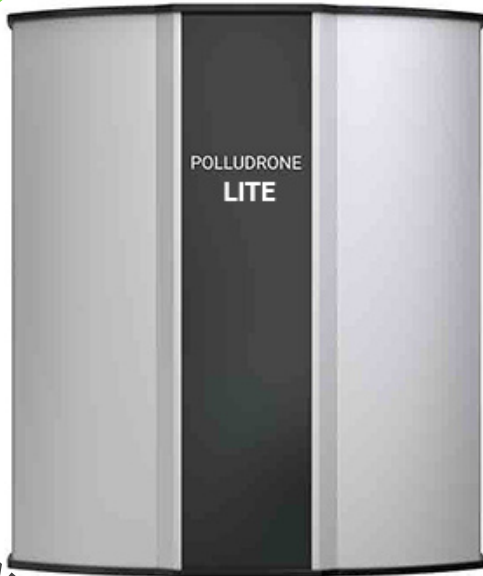
3-Level Calibration



The third-party nodal agency, reference station co-location & spot calibration

Polludrone Variants

LITE



PM_{2.5}, PM₁₀, CO₂, CO, Noise, Light, UV-Radiation, Temperature, Humidity

SMART



PM_{2.5}, PM₁₀, CO₂, CO, SO₂, NO, NO₂, O₃, Noise, Light, UV-Radiation, Temperature, Humidity

PRO



PM₁, PM_{2.5}, PM₁₀, CO₂, CO, SO₂, NO, NO₂, O₃, H₂S, Noise, Light, UV-Radiation, Temperature, Humidity

Smart ambient air quality monitor



ECOMSMART

Ideal for monitoring air quality outside or in a workshop, EcomSmart measures the following parameters:



Air pollutant concentrations: PM1, PM2.5, PM4, PM10, TSP, O3, NO, NO2, SO2, H2S, NH3, HCl, Cl2, CH2O... (available on request)



Meteorological parameters: air temperature, air pressure and relative humidity



Means of localization: GPS

EcomSmart collects data in real time and wirelessly transmits them to Ecomesure's advanced web platform, where they can be analyzed, managed and uploaded onto websites, smart city platforms and imported into software programs. The web platform also allows you to remotely control your monitor.



Simplicity



Easy to use connected system

The EcomSmart smart monitor is light, compact and installs in just a few minutes. Once it is connected to the Internet using one of the communication ports (Wi-Fi, 3G/4G, LoRa, Zigbee, LTE-M), the hyper-local data are automatically transferred to a secure 24/7 web platform.

Low Maintenance

The only maintenance required is replacing the sensor cartridge.



Options & Accessories

Customize your connected system to match your specific needs

Options

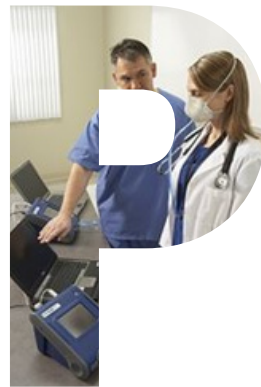
- Add only the sensors you need
- Choose your communication link
- Add a back-up battery

Accessories

- Solar panel and batteries
- Heating element
- Mounting plate

PORTACOUNT®

RESPIRATOR FIT TESTER



+

No other fit tester can quantitatively fit test all types of respirators—gas masks, SCBAs, respirators, even N95 disposable (filtering-facepiece) respirators.

If the mask requires fit testing, count on the PortaCount Pro+ fit tester to provide the fastest, easiest and best OSHA-accepted fit test method.

FEATURES & BENEFITS



- + Greater simplicity with the built-in N95-Companion™ technology
- + Stand-alone operation—no external computer required*
- + Reduces need for an external particle generator
- Redesigned DMA for enhanced performance
- Ability to perform N95 fit testing with much lower ambient particle concentrations
- + Color touch screen
- + OSHA-compliant for all respirators, including N95
- + Measures fit factors greater than 10,000
- + Switch between different respirator types in under a minute
- + Automates fit testing with FitPro Fit Test software
- + Software prints fit test cards with fit test report or on ID cards



Noise Dosimeter SV104IS

ABOUT

SV104 Noise Dosimeter brings incredible functionality into a compact style instrument. The SV104 instrument is a revolutionary new approach to occupational health and safety noise monitoring offering voice comments and audio events recording functions which are a new concept in an instrument of this size. The measurement data is safely stored in the large 8 GB memory and the amazing OLED screen displays information in both text and graphical form and offers excellent visibility even in full daylight.

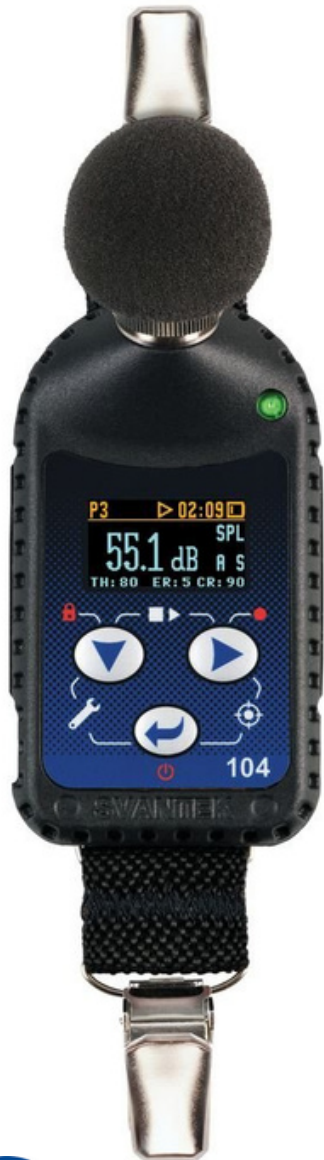
This personal dosimeter has a robust 1/2 MEMS microphone enabling easy calibration using most commonly available acoustic calibrators. The SV104 is a cable-free dosimeter and is typically attached to the user's shoulder, close to the ear using the mounting clips supplied. The instrument works with Svantek's specialist health and safety software package, "Supervisor" and is powered using built-in rechargeable batteries or through the USB interface which also enables easy connection between the SV104 and a PC.

Never before has a noise dosimeter been so accomplished yet affordable, making your measurements more accurate and reliable than ever before.



SV 104IS Noise Dosimeter

FEATURES



voice tagging

small compact style design

easy and friendly user interface

high contrast color OLED display

option for octave real-time analysis

built-in tri-axial accelerometer for vibration

shock (knocking) detection

shock resistant MEMS microphone

Operational time > 40 hours

option for audio events recording

automatic calibration start

three virtual measurement profiles

single measurement range

Rechargeable battery

USB 2.0 interface



SV 973 Type 2 Sound Level Meter



Class 2

MEMS



Frequency Analysis

SV 973 is a Class 2 sound level meter with a wide frequency range up to 10 kHz. The unique feature of the SV 973 is the microphone in MEMS technology with a lifetime warranty. The meter's measurement range from 25 to 128 dB enables its use in industrial and environmental noise measurements. For measurements of noise at work, the intelligent sound exposure meter function limits the frequency range to 10 kHz and shifts the dynamic measuring range of sound level meter to 141 dB Peak. The instrument is easily calibrated in the field using an acoustic calibrator as the calibration begins automatically when the microphone is inserted into the calibrator. The SV 973 can measure broad-band results with all the necessary weighting filters as well as 1/1 octave or 1/3 octave band filters. Audio events recording function works together with sound level meter mode. The data are stored on built-in 8 GB memory and can be easily downloaded to a PC using the Supervisor or SVANPC++ software.

about

main feature MEMS technology microphone

SV 973 Sound Level Meter is equipped with an innovative microphone that combines two MEMS microphones in one 1/2" housing. This solution allowed to obtain two measuring ranges, with a total value from 25 dBA up to 141 dBA, in the frequency range up to 10 kHz. Using MEMS technology, the ST 973 microphone is resistant to mechanical shocks and consumes less energy, which translates into an extremely long battery life, up to 38 hours! Like other Svantek MEMS microphones, the ST 973 is covered by a lifetime manufacturer's warranty..



SV 307

All in One
Noise Monitoring Terminal

The SV 307 is a Noise Monitoring Station dedicated for permanent noise monitoring. The SV 307 integrates a Class 1 sound level meter with a modem in a compact waterproof housing.



GSM Modem offers fast data transfer

Small and lightweight design - easy to install

Frequency range up to 20 kHz



Highly effective large windscreen



SvanNET offers measurement data via Web Brower - plug and play connection

New MEMS Microphone with Lifetime Warranty

Removable & washable housing offers superior protection



Standout large colour OLED display



IAQ-Calculator 7545

Indoor Air Quality Meter

APPLICATIONS

- Verify building HVAC system performance
- Examine building IAQ conditions to optimize worker productivity
- Comply with regulations and guidelines

FEATURES

- Low-drift NDIR CO2 sensor for stable, accurate readings
- Temperature and relative humidity measurements help determine thermal comfort
- Directly calculates dew point and wet bulb temperatures
- Electrochemical sensor measures CO
- Calculates % outside air from either CO2 or temperature
- Displays up to three parameters
- Logs up to 26,900 data points with key (4) measured parameters enabled
- Sampling function records multiple point measurements



Gilian Gilibrator® 3

features

✦ **Fast and easy** to use dry calibrator

✦ **StabFlow™** provides constant low back pressure to device being calibrated

✦ **Patent** pending pulse-free valve technology maintains **calibration integrity**

✦ **Touch screen** color display that is visible in direct light

✦ **Multiple flow cells** with a common base adds **convenience and saves cost**

✦ **Gilian CONNECT PC**

compatible for data retrieval, record keeping, and statistical analysis of data

✦ **SmartCal™** capable with GilAir Plus® pumps

Primary Dry Cell
Calibrator

the Lab, or

Accurate

Back Pressure

Calibrate in the Field,
Convenient and
Wherever You Go
with Stable



The New Standard in Calibration Devices



The Gilibrator 3 is the most advanced calibrator on the market, designed to provide performance, reliability, and ease-of-use. The Gilibrator 3 truly sets the standard for calibration integrity and data reporting. The Gilibrator 3 is a Primary air flow calibrator by NIOSH definition, and delivers NIST traceability through Sensidyne's ISO 17025 accredited laboratory.

PRIMARY FLOW CALIBRATOR 4146

APPLICATIONS

- Industrial hygiene sampling
- Environmental sampling
- Indoor air quality
- Epidemiology health studies
- Field services

This small, portable, battery-operated unit is lightweight and easy to use

This primary calibrator is accurate to $\pm 2\%$ of reading

Volumetric flow-rate is displayed continuously so adjustments to pump flow can be made in real-time





SV 106

Human Vibration Meter & Analyser

SV106A Six-channel Human Vibration Meter and Analyser meets requirements of ISO 8041-1:2017 standard and it is an ideal choice for measurements according to ISO 2631-1,2&5, ISO 5349 and directive 2002/44/EC of European Parliament. This revolutionary, pocket-size instrument enables simultaneous measurements with two triaxial accelerometers (e.g. both-hands vibration or triaxial SEAT transmission measurements are possible). The RMS, Peak, Peak-Peak, VDV, MTVV or dose results such as A(8) and AEQ with all required weighting filters for human vibration measurements, including band-limiting filters, are available with this instrument. Using computational power of its digital signal processor, the SV 106A can perform 1/1 or 1/3 octave real-time analysis simultaneously to the meter mode. Advanced time-history logging and time domain signal recording (according to the ISO 2631-5) to the microSD flash card offer a great data input for detailed signal analysis.



about





Six Channel • Hand-Arm Vibration • Whole-Body Vibration

Two 3-axial inputs for **IEPE** or **MEMS** vibration accelerometers

Two additional channels for **FORCE** measurements

Aluminum **ROBUST** housing

OLED 2.4" color display (320 x 240 pixels)

4xAA **BATTERIES** that can be easily replaced in the field

The **TIME HISTORY LOGGING** with two simultaneous logging steps is saved on a 8 GB **microSD** card



SV 100A

Whole-Body Vibration Dosimeter



The SV100A Whole-Body Vibration Dosimeter is a wireless whole-body vibration exposure meter suitable for whole-body measurements in accordance with ISO 2631-1. Suitable for taking measurements both on the seat and seat-back, the device uses the very latest technology and is ease of use. The instrument is equipped with 4 push buttons and a small OLED display that allows basic configuration in the field.

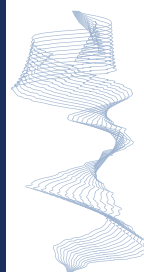
about

The device is equipped with both RMS and RMQ detectors which allows the calculation of Daily Vibration Exposure A(8) based on RMS and VDV simultaneously. All measurement results are stored in a large 8 GB internal memory which allows continuous recording over long periods. The standard 2.0 USB interface allows fast data download and is also used for battery recharging.

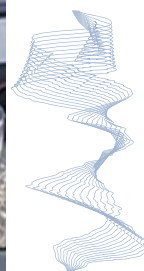
For advanced users, the SV 100A offers frequency analysis in 1/1 or 1/3 octaves and time domain signal recording to wave format in accordance to ISO 2631-5 that is compatible with popular recalculation software. The SV 100A is fully configurable with our Supervisor software. It can quickly and easily be setup for all the weighting filters required by ISO standards.



Whole-body vibration



OLED display



Smart-phone application