

Analyzers, Systems and Software

For the detection and monitoring
of toxic gases



Founded in 1975, **Interscan Corporation** is internationally recognized, by government and industry alike, as the go-to company for toxic gas detection instruments.

Whether you need a battery-operated portable analyzer, a complete multipoint system including data acquisition, reporting, and archiving, or something in between — choose Interscan, and get the most cost-effective solution to your monitoring problem.



interscan corporation

For more comprehensive information, visit us at

www.gasdetection.com

What gases can we detect?

Using our own patented (US Patent Number 4,017,373) electrochemical voltammetric sensors, Interscan offers instruments for Br₂, CO, Cl₂, ClO₂, C₂H₄, ethylene oxide, HCHO, H₂, hydrazine, HBr, HCl, HCN, H₂S, NO, NO₂, O₃, propylene oxide, and SO₂.

While our company is best known for instruments built around our own sensors, our gas detection capability is not limited to the compounds mentioned above. As system integrators and custom instrument designers, we often incorporate high quality sensors from others into specialized packages—ideally suited to the application. That's why Interscan is your one-stop source!

What about measuring ranges?

Available measuring ranges, in all cases, provide sufficient sensitivity to operate well below the applicable occupational health levels, and, at the other end, allow readings in excess of 1000 ppm.

How do we handle interfering gases?

No analytical technique, including wet chemistry, is exempt from the possibility that other substances present in the environment might affect measurement of the target compound.

Even though electrochemical voltammetric sensors are relatively free from interference problems, Interscan considers this information to be of vital importance. That's why we post the most extensive interference chart in the industry on our website.

<http://www.gasdetection.com/TECH/interference-chart.html>

Fortunately, methods exist to work around nearly all potential interference difficulties.



LD Series Single Point System

Does Interscan offer free applications assistance?

Absolutely! Interscan has unmatched applications expertise, and an installed base of hundreds of thousands of instruments. We know how to solve your gas detection problem!

Here are Interscan's standard instrument configurations

Portable Analyzers

Rugged enough to stand up to the toughest field conditions, easy to use, and reliable for decades, Interscan's portables feature . . .

- An integral sample pump, powered by rechargeable Ni-Cd batteries (supplied), giving up to 10 hours of continuous service.
- Circuitry powered by separate alkaline battery supply— for enhanced stability
- Digital readout of concentration in real time
- Audible and visual alarm
- Nylon/Cordura carrying case
- Plug-in battery charger
- Analog output

UL Classified intrinsically safe models, for use in Class I, Groups A, B, C, and D hazardous locations, and CE approved models are available.



4000 Series
Portable Analyzer

Single Point and Two Point Continuous Monitoring Systems

Interscan's LD Series offers the ultimate in continuous monitoring systems. Every component has been chosen based on years of experience in some of the most demanding environments imaginable. What's more, the units are easy and inexpensive to maintain. An impressive array of options allows the specifier to put together a system ideally suited to the application at hand.

Features of the single and two point Continuous Monitoring Systems

- Super-rugged NEMA Type 4X fiberglass reinforced polyester enclosure for single point unit; NEMA type 12 steel enclosure for two point unit
- 3 1/2 - digit LED display/controller
- Integral diaphragm pump
- Rotameter
- Analog output
- Low and high alarm contacts, continuously adjustable through the full scale measuring range, activating dedicated relays



LD Series Two Point System



RM Series Analyzer

Rack-Mountable Analyzers

Interscan's RM Series rack-mountable analyzers are intended for those single point monitoring applications in which line power operation is desired (allowing continuous operation and the incorporation of heavier-duty alarm signals or alarm contacts), but in which the rigorous NEMA 4X packaging of the LD Series is not required.

Designed to be installed in a standard 19 inch (483 mm) rack or to be used on the bench, their open frame construction and use of standard electrical and pneumatic components allow easy incorporation of the units into a system. Many of the LD Series' features and options are available.

Options

- Alternative packaging, including Type X or Type Z purged enclosures, explosion-proof enclosures, and RFI resistant enclosures
- Audible alarm
- Visual alarm
- Enclosure heating and cooling
- Loss of sample flow alarm
- Triple alarm set points
- Loss of power alarm
- Aspirator (in lieu of pump)
- Auto zero
- Sensor protection circuit

The two point version of our LD Series gives you two continuously operating monitoring channels in one convenient package. While usually deployed to measure the same gas at two different points, it can also be configured to handle one channel each for two different gases.

All the features of the single point unit are included—times two—with dual display controllers, dual pumps and rotameters, and dedicated alarm features for both channels.



8-Point Sequential Monitoring System



5-Point Continuous Monitoring System

Continuous Monitoring Systems For Three or More Points

Interscan's multipoint systems combine the latest in factory automation and gas sensor technology to give you the best possible functionality, with no compromise.

Custom designed to meet your exact needs, yet reasonably priced, our systems will perform for you, providing protection and peace of mind—as they have in thousands of installations all around the world.

Data Logging and Archiving Products

Nomad Data Logger

The Nomad is a self-contained data logger that connects to any instrument with an analog output, and samples and stores its output at a rate adjustable from once per second to once every 10 hours. The unit is supplied with all necessary cables and excellent software, that produces a variety of reports and allows export of the data files.

Nomad models with built-in sensors are also available for temperature, pH, pressure, and many other parameters.

Arc-Max[®] Data Acquisition, Archiving, and Reporting Package

Arc-Max[®] continuously stores input from all kinds of workplace sensors, and produces reports of employee exposure to toxics, automatically. Built around a powerful SCADA (Supervisory Control and Data Acquisition) engine, alarm logs, live and historic trending, and specialized reports—Shift Reports—giving key occupational health information, are available at the click of a mouse. Up to four independent shifts per day can be assigned, to better analyze exposure data. The shifts can overlap. The Shift Reports can be programmed to print automatically at the end of each shift, or on-demand at any time. Historical Shift Reports are readily available, as well.

The Shift Report tracks the following, for each sensor monitored by Arc-Max[®].

- Shift Minimum value and time of occurrence
- Shift Maximum value and time of occurrence
- 8 hour time-weighted average
- The four highest 15-minute average exposures (STEL) that occurred during the shift

Why Do You Need ARC-MAX[®]?

Suppose that you've been a good corporate citizen, and have installed sensors for toxic compounds all around your facility, to protect your employees. Ask yourself this: Can you document long-term employee exposure? Do you have any idea how close their exposure is to the allowable levels?

High concentration alarms are fine, but they're not enough! Of greater importance these days is long-term low level exposure. That's the kind of exposure that lawsuits are based on. Unless you have a documented record of exposure, if you're sued, you'll be scrambling for data, desperately trying to re-create the past.

Protect your employees—and your company—with Arc-Max[®]

SPECIAL PRODUCTS

Do you need a special instrument for a unique application? Interscan can help.

We collaborated with a major forest products company to develop a breakthrough method for determining formaldehyde emissions from engineered board.

We introduced the world standard instrument for detecting Vikane[®] (sulfuryl fluoride)—a pesticide.

Our hydrazine instruments were originally developed to meet a specific need at NASA.

Specially designed CO sensors, developed in our lab, became an integral part of a sophisticated pulmonary function diagnostic tool.

Ruggedized personal chlorine monitors, manufactured by request for a major bleach manufacturer, have been used in their plants for years.

Our Halimeter[®], designed to meet the needs of dentists, researchers, and the pharmaceutical industry, is recognized as the clinical standard for parts-per-billion volatile sulfur compound measurement.

Please bring us your special needs. All inquiries will be kept confidential, of course.



interscan corporation

P.O. Box 2496

Chatsworth, CA 91313-2496

Toll Free 1 800 458-6153 (U.S. and Canada)

Fax (818) 341-0642

Phone (818) 882-2331

Website <http://www.gasdetection.com>

e-mail info@gasdetection.com