

SEMICONDUCTOR, LCD AND LED ANALYTICAL SOLUTIONS

Expert in ultra-trace gas analysis for over 30 years

When it comes to the semiconductor/LCD/LED industry, the pace at which it advances has been quite a driver for us. To remain at the forefront, we've had to develop innovative solutions rapidly, constantly evolving to meet more and more stringent requirements. As a result, we're proud to say that we offer the most advanced, innovative range of semiconductor/LCD/LED solutions in our field — and our portfolio is proof of our commitment to you.

Our offering

- · Complete analytical systems
- Ultra-trace gas chromatographs
- · Leak proof UHP sampling system
- · Ultra-trace calibration system

Applications

- Electronics bulk gas analysis (He,H2,Ar,N2,O2,CO2)
- Specialty gases analysis (SiH4, etc).
- · Ultra-trace instrument calibration
- CQC Systems
- UHP gases

Based on our advanced technologies

- · High sensitivity Epd sensing technology
- · Leak proof PLSV chromatographic valve
- Advanced eLOD signal processing algorithm
- LipLok
- ArDSieve



30 years of innovation for the semiconductor market

Our team has dedicated its career to the improvement of ultra-trace analysis. We have designed many new technologies resulting in over 180 patents and many breakthroughs.

1992

K2000: The first digital trace N2 analyzer

Yves Gamache, owner of Contrôle Analytique, shakes up the gas analysis and chromatography industry with the invention of the K2000, a small, low-weight analyzer that was superior to every commercially available instrument.

1995

The K2001: A next-generation analyzer

Yves Gamache's longtime associate, André Fortier, joins him to form Contrôle Analytique. The company would go on to develop a host of disruptive technologies, including the K2001. A quantum leap in the domain, this N2 analyzer becomes an instant worldwide success and 30 years later, it's still the market reference

1997

K2002: For an unsurpassed limit of detection

A new design makes the K2001's detection limit the best in the industry, and it becomes the K2002. Thanks to our reputation and track record, the K2002 is an instant success in the semiconductor industry.

2000

K4000: The reference for trace N2 and Ar analysis for semiconductor

Based on a unique plasma emission detector and breakthrough chromatographic column that separates Ar and O2, the K4000 became de reference in the industry with < 1 ppb limit of detection.

2007

Analytical Flow Products: Improving GC valves

Contrôle Analytique is sold to Servomex UK, and the team begins focusing on the development of innovative new valves — ones that give rise to a company named Analytical Flow Products (AFP).

2017

ASDevices is born—Combining 30 years of knowledge

We have combined our 30 years of experience in ultra-trace analysis to create new IP and an innovative product portfolio to revolutionize this market and bring better solutions to our long term customers.



What we can do **for you**

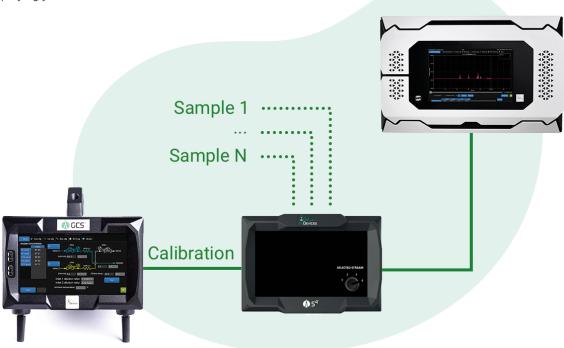
We've dedicated our careers to the continuous improvement of the gas chromatography field. Using only the highest-quality components, we've designed cutting-edge technologies for a host of industries, and had our solutions validated by specialists in each field to ensure that they not only meet but exceed their needs.

From our revolutionary permanent gas concentrator to our ultra-sensitive patented enhanced plasma discharge (Epd) technology (that can measure in the ppt range) and our ground-breaking PLSV GC valve (that offers unsurpassed leak integrity and performance), we're equipped with all the key components you need, both for now and in the future. What's more, we've implemented the latest advancement in signal-processing into our ASDSense GC software, so we can offer you even more precise, sensitive measuring capabilities.

A complete ecosystem

Improving measurement accuracy

Our leading-edge analytical solutions are designed to work in harmony with our selection of supporting accessories – such as our sample concentrator or our purifiers – to improve performance, all while simplifying your life.



ASDevices



Offering a complete solution based on the best technologies

KA8000 and KA6000 GC solutions

Choice of two GC platforms to suit your application needs

- · ASDSense process GC software
 - Large industrial grade touchscreen display
 - Based on industrial grade operating system
 - Internal data storage and analysis
 - eLOD algorithm for enhanced performance
 - IIoT Ready
 - Remote monitoring
- · Up to 4 gas detectors with SePdd Quattro
- · All key components accessible from the front panel for easy maintenance
- 19" Rackmount

SAMPLE STREAM SELECTION SYSTEM (S4)

Designed for UHP gas sampling with leak proof design

- Ultra-high leak integrity with PLSV valve technology
- · Eliminates cross-sample contamination with PLSV technology
- Automatic control from GC platform
- 2, 4, 6 and 8 inlet versions available
- · Inert flow path available

INTELLIGENT GAS CALIBRATION **SYSTEM (GCS)**

The most accurate ultra-trace calibration

- Ultra-high precision with sonic orifice technology
- High dilution ratio, up to 1:10000
- · High stability with temperature-controlled orifices
- · Ultra-high leak integrity
- Inert flow path design (optional)

CALIBRATION & VALIDATION

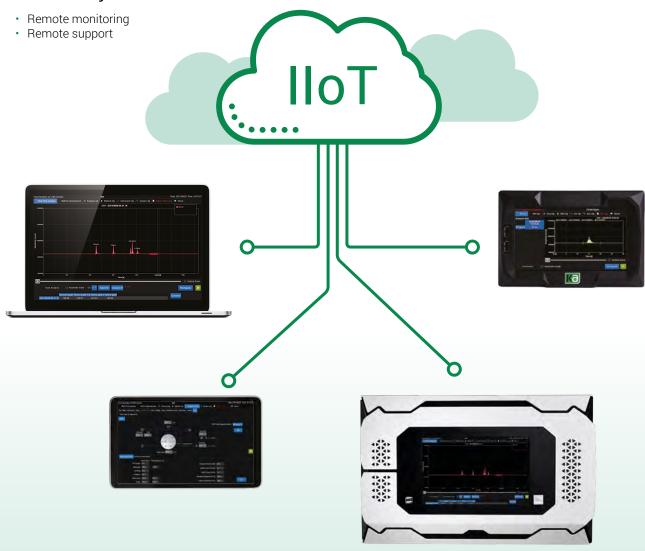
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Calibration

IIoT ready: Designed for the future

Many industrial analyzer platforms were designed over a decade ago, but our innovative, new online analyzer platform was developed with the future in mind. Connectivity is key to remotely access your GC platform from anywhere and our software even supports the well-established IIoT protocol, MQTT.

Access your instrument from anywhere



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Ultra-trace gas chromatograph

We offer two analytical solutions to meet your needs in the most cost effective way. Both use the same electronics and software and offer the same performance. The difference is related to the number of valves, columns and features such as ramping oven capability that is only offered in the KA8000plus.

KA8000plus

Our most advanced rackmount process gas chromatograph



Our most advanced solution, the KA8000 series is based on the iMOv platform. Its modular oven design allows for 6 GC valves, 2 detectors and multiple parallel chromatographic channels to be integrated and, it even offers a heated valve box and a ramping oven.

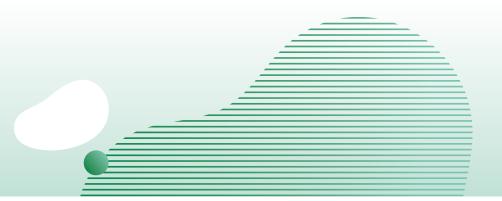
Features

- Up to 2 gas detectors and up to 4 with SePdd Quattro
- Up to 6 thermal zones, isothermal and ramping oven capability
- Ambient or heated valve capability
- Up to 6 chromatographic valves
- All key GC components accessible from the front panel, for easy maintenance
- · Rackmount configuration
- · Auto-sampler option

Applications

- Trace permanent gas in bulk gases
- Xe / Kr purity
- Sulfur in air
- · BTEX in air

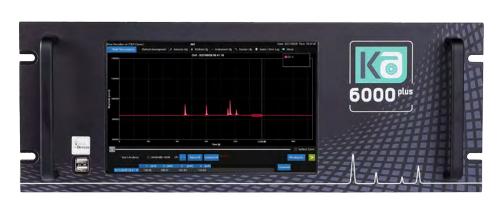
- · Greenhouse gas
- Electronic bulk gas (also with argon carrier)
- H2 purity



KA6000plus

Rackmount process gas chromatograph

Based on our GCSense platform, this high-quality solution is ideal for the integration of medium complexity GC configurations, where up to 5 valves and up to 2 detectors are required. What's more, a large touchscreen display makes it easy to operate.



Features

- 4U 19 inches rackmount configuration
- Up to 4 isothermal zones
- Up to 5 chromatographic valves
- Up to 2 gas detectors

Applications

- C1-C4 and N20 in O2
- 02 purity
- N2 purity

Choose your platforms, according to your needs:

	KA8000Plus	KA6000Plus
Number of detector	2	2
Number of thermal zones	6	4
Number of GC valve	6	5
Number of electronics pressure controller	5	4
Ramping oven capability	Yes	No
Valves and column accessible from front door	Yes	No
19" Rackmount	Yes	Yes



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Typical minimum detection limit for key applications

Typical sampl	e gas	Minimum Detection Limit (ppt)						
Matrix	Range (ppb)	H2	N2	CH4	СО	CO2	NMHC	Ar
Helium	0-250	70	60	70	75	70	100	75
Argon	0-250	70	60	70	75	70	100	_
Oxygen	0-250	70	60	70	75	70	100	75
Hydrogen	0-250	_	60	70	75	70	100	75
Nitrogen	0-250	70	_	70	75	70	100	75

Note: Other ranges available. Minimum Detection Limit is based on 3 times signal to noise

Sample gas		Minimum Detection Limit (ppt)						
Matrix	Range	H2	N2	CH4	СО	CO2	NMHC	Ar
Helium	0-250	100	100	100	200	100	250	100
Argon	0-250	100	100	100	200	100	250	_
Oxygen	0-250	100	100	100	200	100	250	100
Hydrogen	0-250	_	100	100	200	100	250	100
Nitrogen	0-250	100	_	100	200	100	250	100

Note: Other ranges available. See AN-20 for limit of detection definition and method.

Typical repeatability for key impurities

		Measurement (ppb)					
Analysis #	N2	H2	CH4	СО	CO2	NMHC	Ar
1	3.59	3.79	3.47	4.26	3.99	4.00	3.97
2	3.93	3.96	3.46	4.68	3.7	3.67	3.73
3	3.96	3.91	3.59	4.54	3.61	3.64	3.58
4	3.97	3.94	3.61	4.58	3.87	3.89	3.83
5	3.83	3.85	3.66	4.61	3.73	3.73	3.74
6	3.79	3.89	3.67	4.5	3.86	3.82	3.83
7	3.47	3.77	3.53	4.5	3.54	3.57	3.55
8	3.77	3.89	3.50	4.65	3.71	3.69	3.70
9	3.77	3.87	3.48	4.55	3.73	3.76	3.72
10	3.95	3.92	3.52	4.34	3.98	3.95	3.98
Average (ppb)	3.803	3.879	3.549	4.521	3.772	3.776	3.768
Repeatability (ppb)	0.167	0.061	0.078	0.132	0.149	0.139	0.143

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Sample stream selection system (S4)

Unsurpassed sample integrity

We know that sampling system quality greatly impacts analytical system performance. That's why for over three decades, we've been designing only the best sampling solutions, like our innovative sample stream selection system (S4) with our proprietary purge leap sealing valve (PLSV) that delivers unsurpassed sample integrity.



Features

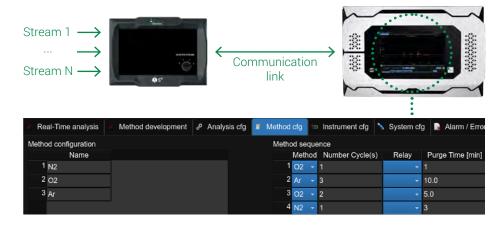
- Based on purge leap sealing valve (PLSV) technology
- · PLSV technology eliminates cross-port leaks
- 2, 4, 6 and 8 sample inlet versions available
- · Manual, automatic or remote control
- No dead or unswept volume
- Stand-alone or integrated with GC platform

Applications

- · Industrial gas sampling
- UHP gas sampling
- · Electronics gas sampling
- · Reference or calibration gas sampling
- Fence line monitoring

Automate multi-stream analysis with our Sample stream selection system (S4) and ASDSense software

- · Define number of analysis per stream
- Automatic analytical method switch
- Automatic stream switch
- User configuration purge time



•9• **ASDevices**

Intelligent gas calibration/dilution system (GCS)

The data provided by your analytical system is only as accurate as your calibration.

Gas calibration and analytical system performance validation depends on knowing how to accurately dilute gas standards. Our high-end dilution system, based on a laser-calibrated orifice, is the result of over 30 years of experience in the field, so you can count on unparalleled precision.



Features

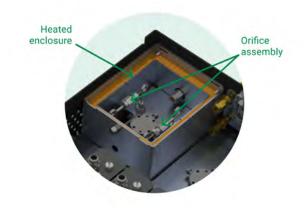
- Sonic orifice technology with high dilution ratios from 1:2 to 1:3500 (Custom up to 1:10000)
- High precision (<0.5%rel.)
- · High sample integrity with purged electronics pressure regulator
- · Advanced mathematical model to enhance precision and stability
- · Heated flow path up to 200°C
- · User configurable orifice
- · Optional inert flow path for sulfur and reactive gas analysis
- · NIST traceable certificate available

Applications

- Ultra-trace analyzers calibration / validation
- Ultra-trace N2 and O2 calibration / validation
- Portable calibration system for on-site calibration
- · Gas analyzer manufacturing/quality control
- Gas standard preparation
- Gas analyzer performance validation
- Research and development

Enhanced stability

Pressure and temperature must be stable. That's why we use a highly stable, temperature-compensated pressure sensor in our electronics pressure controller (EPC). What's more, the orifices are installed inside a heated, adjustable enclosure, and the temperature can be adjusted up to 200 °C to better accommodate your gas sample.



Typical configuration

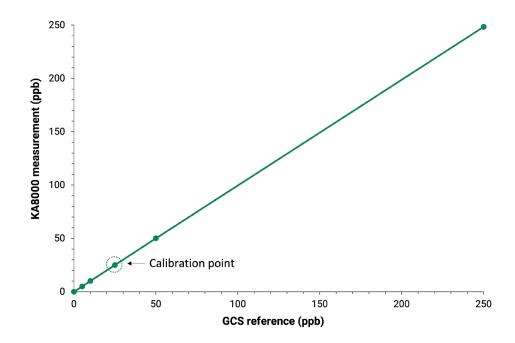


Benefits of calibrating with ASDevices GCS

Most ultra trace instruments designed to measure low ppb levels are calibrated in ppm level leaving doubts about true performance to precisely measure ultra trace contained in gas. The GCS was designed for that very reason. Instead of calibrating our instruments with widely available 5 to 10 ppm standard calibration gas, we use our GCS to precisely calibrate our instruments at just a few 10s of ppb. The result, a more precise and reliable measurement.

Analyte linearity examples

- Nitrogen
- Hydrogen
- · Carbon monoxide
- · Carbon dioxide
- Methane
- Argon



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Pure

Quantum leap in gas purification

A premium quality gas purifier, the ASD Pure is designed to be robust and provide outstanding performance thanks to its dual vessel technology. It's available in three different flow capacities (300, 1000 and 5000 ml/min) to suit your needs.



Features

- Gases purified: Ar, He, Ne, Xe, Kr (N2 is also an option)
- Impurities removed: H2O, H2, O2, N2, CH4, CO, CO2, hydrocarbons
- Achievable impurity level: < 1 ppb (< 5 ppb single vessel version)
- Nominal flow: 300 ml/min, 1000 ml/min and 5000 ml/min
- Lifetime at nominal flow: 2 years
- Proprietary dual vessel technology: No H2 release

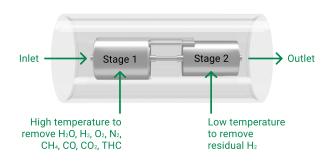
Applications

- · Carrier gas purifier
- Zero gas generator for calibration of online analyzers
- Reference gas generator for TCD analyzers
- Mass spectrometer
- · Perfect for all kinds of detectors: plasma, HID, DID, FID, PDID, TCD, ECD, etc.

Dual heated getter technology

It's well-known in the field that traditional heated getter purifiers release trace amounts of H2 due to both hydrocarbon cracking and the metal being processed at high temperatures. Our proprietary dual-stage purification design unlocks better purification and superior performance. With a second vessel operating at a lower temperature, the H2 released by the first vessel is reduced to below 1 ppb.

- < 1 ppb purity</p>
- No H2 release





PATENTED

Intelligent Plasma Assisted Purification System (PAPS)

also available

Features in addition to Pure:

- · Extended life with Plasma assisted purification
- End of life detection capability



Our technologies

Advancing gas chromatography and gas analysis

At ASDevices, innovation is built right into our DNA. So when we realized that existing technology just wasn't good enough, we began challenging ourselves to develop better, smarter, more cost-effective gas analysis solutions. From products that use less gas to ones that require no spare parts, maintenance or consumables, everything we do is designed to improve efficiency and make things more simple for you — and more healthy for our planet.

Semiconductor, LCD and LED solutions

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Enhanced plasma discharge (Epd)

A quantum leap for gas chromatography sensing

The Epd (enhanced plasma discharge) is our proprietary gas detector technology based on a stabilized dielectric barrier discharge (DBD) plasma. The breakthrough resides in the focusing and stabilizing compound electrodes (patent pending) which generate a more stable plasma discharge across a broad range of operating conditions. It uses the highly energetic plasma behaviors to perform measurements. Its versatility and sensitivity make it a technology of choice to measure molecules with high ionization potential, such as the permanent gases, as well as molecules with lower ionization potentials, such as VOCs, hydrocarbons and sulfurs, from ppt to % range.

Stabilized dielectric barrier discharge (DBD)

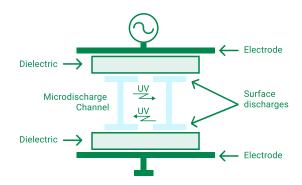
At the core of our Epd technology, a highly energetic plasma source is used to ionize molecules. Its unsurpassed performance is a result of the Epd stabilized dielectric barrier discharge. The DBD isolates the discharge electrodes from the ionized plasma, eliminating sputtering, cell inner wall coating and analyte interference.

Compound electrode

This major breakthrough comes from our innovative compound electrode (patent pending). By nature, DBD generates streamer discharges. This results in a noisy signal impacting the signal-to-noise ratio. The main advantage of our technology is that unlike other DBDs or plasma emission detectors (PEDs), our stabilization and electron injection electrodes (patent pending) are embedded in the compound electrode. This enables the electrode to improve stability by sweeping away the accumulation of charges on the inner surface wall.

Our unique compound electrode technology also provides other benefits such as:

- · High temperature operation
- High pressure operation
- Adjustable discharge gap
- Higher ionization potential and efficiency





PATENT PENDING

Purge lip sealing valve (PLSV)

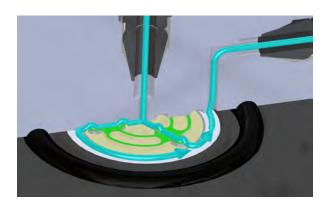


The most reliable and durable analytical valve for UHP analysis sample and carrier gas integrity

- · No leaks: Unique purge technology eliminates inboard/ outboard and cross-port leaks
- Long lifetime: Over 1 million actuations in UHP applications due to unique reduced surface area insert technology
- · Constant pressure drop: No change in pressure/flow drop across temperature range and life span
- No dead volume: Internal flow path contains no unswept volume

Leaks are virtually impossible by design

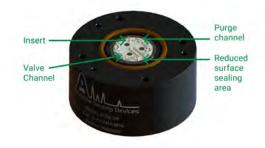
With its purging channels located between two adjacent valve channels and valve head purging pockets machined into the valve head, our PLSV's unique, patent-pending design does away with leaks. The pockets connect the purging inlet and outlet through the channels, allowing purge gas to flow freely. Since the volume around the insert and in between ports is continuously removed, there are no more inboard/outboard and cross-port leaks.



Improves lifetime with reduced surface sealing area

Using finite element modeling (FEM) and real-life testing, we optimized the sealing leap size and shape. The result is a sealing surface area that's 14% the size of a standard conical rotary valve, decreasing wear and tear and friction on the valve. What's more, the insert material is specially treated by a proprietary process that improves the surface finish, hardness and creeping.





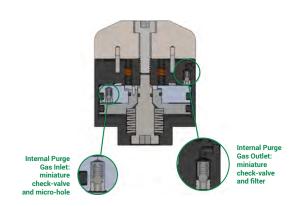
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PATENT PENDING

Purged pulse diaphragm valve (PPDV)

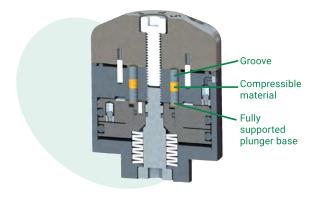


Our pulse purge diaphragm valve (PPDV) uses the static purge principle to purge the valve's inner volume through the actuation gas. It works for applications that require the features of a diaphragm valve or when better performance is needed from existing applications without design changes.



Static purge principle

The system is based on a static purge system that substantially reduces purge gas flow consumption by successive dilution instead of a dynamic (continuous flow) purge concept. This typically results in only 5% of the purge flow consumption compared to a standard purge valve.



New plunger design

- Purge grooves added to its perimeter to increase air flow and exchange between actuation and under-the-diaphragm volumes.
- Whole plunger base now supported so that the sealing pressure is evenly applied against the diaphragm, minimizing the leak risk and localized diaphragm deformation.
- Plunger's rigid midsection replaced with a compressible one that's separated into three sections for overall flexibility

PATENTED

LipLOK fitting

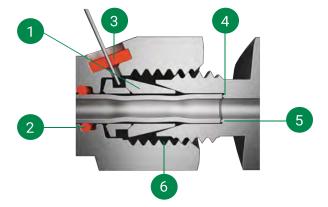


Bringing analytical performance to the industrial/instrumentation compression fitting

Our LipLOK fitting brings together industrial design analytical performance and robustness with improved leak detection.

It uses two sealing points – the first, a sealing lip, is compression-fit to the tube end, allowing for minimal loss of analytical performance. LipLOK is similar to the VCR fitting but with less dead volume in its flow path. The analytical-grade seal performance is achieved between the tube end and the lip feature using a very low, almost finger-tight torque. The double ferrule design provides the second level of sealing, which resists the effects of vibration and protects against ejection of the tube from the fitting. This is achieved without transferring excessive force to the lip.

No unswept volume and optimized for leak integrity



Standard front ferrules

Second level of sealing and tubing swaging action that prevents tube expulsion under high pressure/vibration environment

- **Tubing surface seal and nut sealing ring**Provide concentration chamber sealing
- **Septum**Leak detection sniffing with syringe
- **Coated sealing ring**First level of sealing
- 5 Leak concentration chamber
 Sniffing: Detect the smallest leaks by accumulating and concentrating them

Tracer: Pressurize the chamber with a tracer gas for leak integrity test

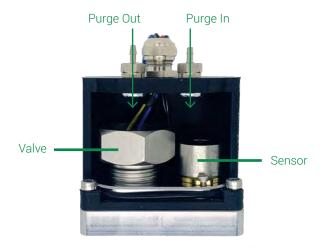
Leak detection system's syringe or sniffing probe

A surface seal has been added to the fitting nut and there is now a seal or septum in the sniffing hole, so any leak that develops inside the fitting will be forced to accumulate in the leak chamber space. The pressure builds up in the chamber until it reaches a certain value, at which point it goes through or around the septum. Inserting the needle of a sniffer or leak detection apparatus allows sensitive leak detection since the leak is concentrated in this chamber.



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Purged electronics pressure controller



Lower your operating costs by reducing carrier gas consumption by as much as 50%

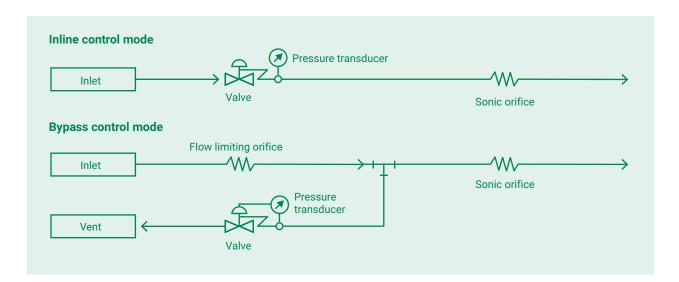
- · No leak with unique purged concept
- Temperature compensated pressure sensor for enhanced stability
- · Allow carrier gas to be controlled in inline control mode and reduce carrier gas consumption by as much as 50%

Leak integrity

As expert in ultra-trace N2 analysis, we understand how serious a leak can be. That's why all the components in our proprietary-design electronics pressure controller (EPC) are encapsulated in an enclosure that can be purged using an inert gas such as argon or helium, voiding the effects of any ambient leak. It's an innovative design – one that ensures that sample integrity is preserved.

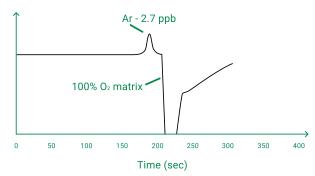
Inert flow path

We offer two sample flow configurations: Inline and bypass. For reactive mixtures, the intelligent gas calibration system (iGCS) can be configured with a by-pass control mode, so that the sample is never in contact with control elements such as the valve and pressure sensor.



Trace argon in UHP oxygen

ArDSieve GC column



Ar/O2 separation column

Benefit from a new breakthrough in material science with the ArDSieve chromatographic column, an innovation that separates argon and oxygen molecules at room temperature.

- Ar and O2 separation at 50°C column temperature
- Increased durability with proprietary HydraGuard moisture protection layer
- Lower limit of detection compared to GC systems that use O2 traps
- No need for consumable oxygen trap
- Improved peak symmetry and reduced eddy diffusion with narrow mesh size range (60/65)
- Improved separation compared to other columns due to proprietary plasma oxidation treatment

Proprietary ArDSieve material

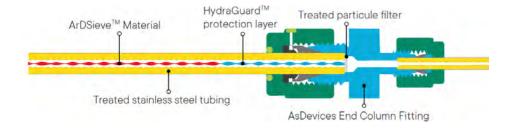
The material used in the ArDSieve column is the result of an intensive R&D program and decades of experience. A combination of clinoptilolite, an ion exchanged chabazite, and proprietary treatments, this breakthrough column separates argon and oxygen at room temperature.

Oxidation treatment

Recent advances in material science have enabled us to better oxidize solid-phase material. A proprietary mixture containing oxygen is introduced into a plasma chamber, considerably improving efficiency and producing higher quality argon and oxygen.

Dehydration and HydraGuard layer

To achieve proper argon and oxygen separation, it's important to thoroughly dry the column material. We put our decades of experience into developing an enhanced dehydration process that further improves the column's performance. We've also introduced a moisture protection layer called HydraGuard which sits on both sides of the column and eliminates column contamination when manipulating the column or when a contaminated sample is injected.



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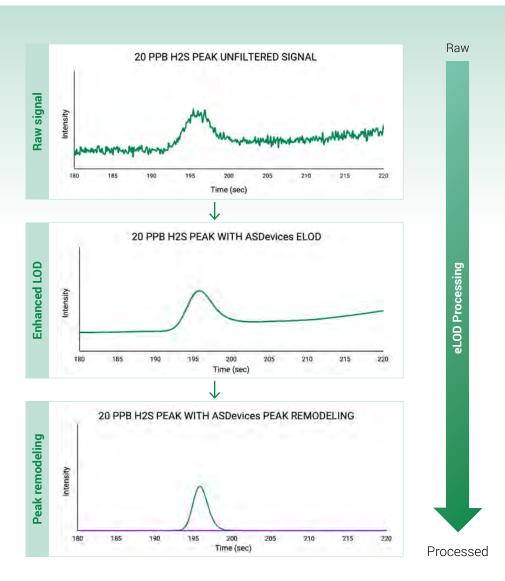
eLOD algorithm

Improving measurement accuracy

Over time, the enhanced limit of detection (eLOD) algorithm analyzes and learns the detector's baseline noise and peak shape based on a number of consecutive chromatograms. The learning process allows for a better understanding of the signal's power distribution and differentiates between noises.

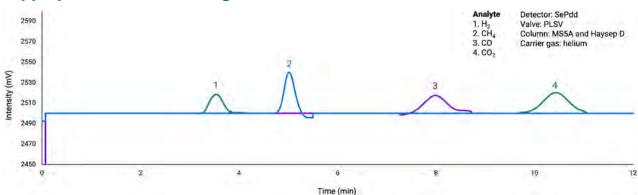
- · Limit of detection (LOD) is improved by up to 10 times
- · Random noise is removed
- · Retention time variation is reduced
- · Peak shape is improved

eLOD processing method

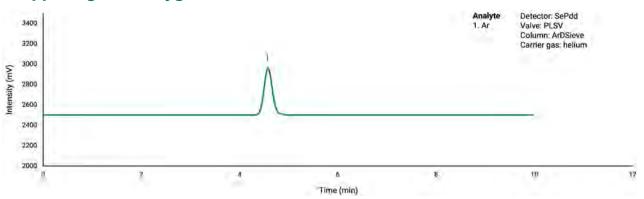


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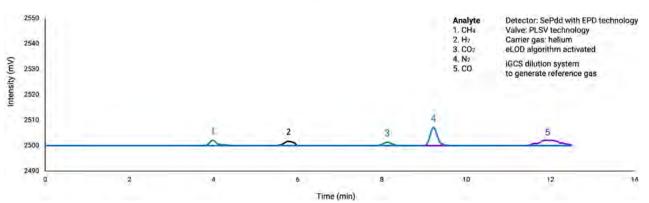
4 ppb permanents in nitrogen



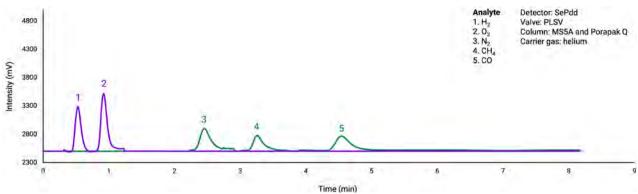
25 ppb Argon in Oxygen



700 ppt H2,N2,CH4,CO and CO2 analysis in helium



250 ppb permanents in Silane



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Asynchrone **Faster analysis**



With ASDSense asynchronous technology, get faster and more precise results

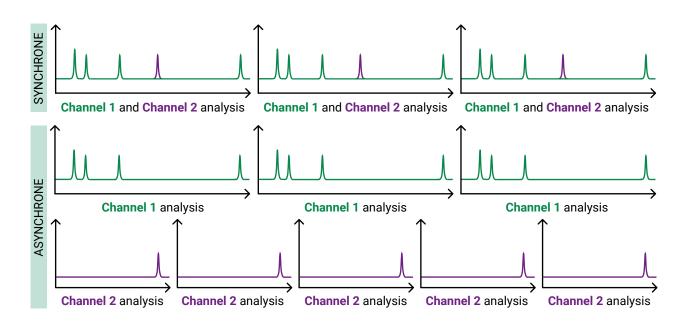
ASDSense is the first process and only GC software to use such an advanced feature. It is very common to ask a process gas chromatograph to run multiple analysis methods in parallel. However, traditional GC software are synchronous and not allowing independent method analysis. If one channel requires a 5-minute analysis and another requires a 10-minute analysis, the shorter cycle is slowed down by the longer one. This is a major limitation! As we always want to offer best-in-class solutions, our new ASDSense process GC software supports asynchronous chromatography allowing you to run several analysis in parallel. It will save you time and boost productivity – guaranteed!

Benefits

- · Faster data throughput
- Allow faster analysis of key impurities such as N2 for leak detection
- · Improved sensitivity with the combination of faster analysis and eLOD algorithm

Asynchronous (parallel) chromatographic analysis

In chromatography, it's common to have parallel channels. But because traditional GC software are synchronous, it's not possible to analyze each one independently. If one channel requires a 5-minute analysis and another requires a 10-minute analysis, the shorter cycle is slowed down by the longer one, and this is a major limitation. As we always want to offer best-in-class solutions, our GC software natively support asynchronous chromatography.

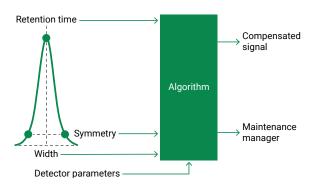


StabiliPeak technology

Make your GC failsafe

A quantum leap in measurement precision, stability, and robustness

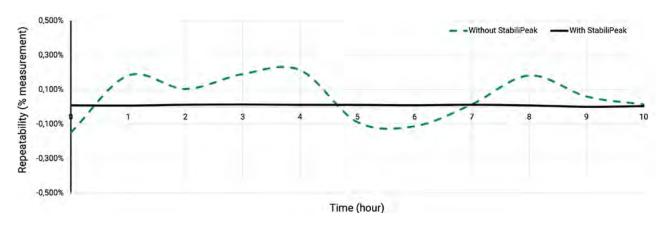
ASDevices is introducing StabiliPeak. This patent pending algorithm has been developed and tested during a 2-year R&D program to offer ultra-precise, ultra-stable measurements in the medical market, to precisely detect pathologies such as cancer using VOCs in exhaled breath. It has been validated with Spira Innovations, a company specializing in exhaled breath analysis. The benefit of this algorithm goes well outside the medical market. It is a technology breakthrough for the analytical process industry as well as the semiconductor market.



Benefits

- · No measurement drift caused by
 - Ambient temperature variations
 - Ambient pressure variation
 - Analytical components aging
- · Avoid false positive or negative measurements
- · Improve robustness: Provide a continuous health check of the instrument

Measurement stability improvement



Note: This technology is optional will any of our chromatographs

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Application notes that might interest you

AN-05 - Purged Lip Sealing Valve

AN-08 – A quantum leap for chromatographic valve

AN-13 - Pressure Drop and Dead Volume: PLSV against diaphragm valve

AN-17 - PLSV valve purge technology explained with the leak management principle

AN-20 – Not all limit of detection are the same

Visit www.asdevices.com/documentation

Contact us today

Are you interested in ASDevices' products? Our team is at your disposal to answer your questions and evaluate your needs.

Americas

Business Center

22C, World's Fair Drive Somerset, New Jersey, USA 08873

+ 1 732 302-1950 americas@asdevices.com

Innovation Center and Head Office

233, Jalbert St. Thetford, Quebec, Canada G6G 7W1

+ 1 418 338-0299 info@asdevices.com

Asia

Business Center

No. 298 JinChi Road, BaoShan District, Shanghai

+86 138 1765 1588 asia@asdevices.com

Europe

Business Center

Rudolf Diesel Strasse 12 A D-65760 Eschborn Deutschland

+ 49 6173 32 00 78 europe@asdevices.com

