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After years of development and successful collaboration, DPS Instruments is pleased to present the newest portable Companion 1 GC system. The Companion 1 GC was designed to "fit into" your laboratory. Offering the same ruggedness and performance found in our lab GC Series and Lab GC's, the performance of the Companion 1 GC has not been compromised because of its portability.

The DPS Companion 1 GC Systems are a new breed of GC. They are the first portable GC where you can enjoy 1 of 3 modes: desktop, laboratory or in the field. In the field, the Companion 1 GC is rugged, reliable, and easy to use. It is designed to be used in the field, in the laboratory, or in the desktop. The Companion 1 GC is designed to be used in the field, in the laboratory, or in the desktop.

The ruggedness of all the DPS GC Systems are tested under in instruments, where our instruments have proven themselves to be rugged, reliable, and easy to use. The Companion 1 GC is designed to be used in the field, in the laboratory, or in the desktop.

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DPS Companion 1 GC

Lab. Quality Analysis in the Field
"Costs less than a notebook"

General Specifications:

- Modular Design - Built-in Accessories
- Mass Standard Identification Specific Configurations
- Complete Check and Self-Loading
- Color Touch Screen Instrument Control
- Free-standing operation with no hard GC Methods
- Provenance (Data) Sample Processing
- Buffer Instrument Diagnostics
- Temperature Control to 0.001 °C
- GC Pressure Control to 0.001 psi
- Flow Rate to 0.001 mL/min
- Up to 80 °C, not too hot (Column Oven Range)
- Full Compliance ISO 9001:2015 & ISO 14001:2015
- Connect and Control via:
- Serial Data Transfer (USB, RS-232, or RS-485) or Wi-Fi
- Remote Control via PC
- Full Compliance with CE, RoHS, and REACH

The versatile Gas Chromatograph is now more versatile than ever. DPS Chromatograph is designed to support the new Portable Companion 2 GC Chromatograph with an open 20" x 20" footprint. The Companion 2 GC was designed to be used with the new Companion 2 GC. The Companion 2 GC was designed to be used with the new Companion 2 GC. The Companion 2 GC was designed to be used with the new Companion 2 GC.

The DPS Companion 2 GC Systems are a new breed of GC. They are the first GC Systems to offer you a choice of 2 portable systems, allowing you to work in the field or your laboratory. From a compact 10" x 10" footprint to a larger 20" x 20" footprint, the Companion 2 GC Systems are designed to be used in the field or your laboratory.

The versatility of the GC Systems are built into the instrument, allowing you to choose a portable system or a laboratory system. The Companion 2 GC Systems are designed to be used in the field or your laboratory. From a compact 10" x 10" footprint to a larger 20" x 20" footprint, the Companion 2 GC Systems are designed to be used in the field or your laboratory.

General Specifications:

- Modular System - Built-in Accessories
- Power Standard: 115V/60Hz Single Phase
- Carrier Gas and Air Inlet
- Color Touch Screen Instrument Control
- Four channel operation with onboard GC Method
- Parametric Data Base Processing
- Built-in Instrument Diagnostics
- Temperature Control to 0.001 °C
- DPS Pressure Control to 0.001 psi
- Analyzed to 320 °C Column oven
- Up to 80 °C per Hour Column Oven Ramp
- Four channels: 200 °C to 300 °C or 4 °C
- 1 or 2 Detectors
- Carrier Gas Control
- Water-Tight Carrier Gas Inlet (10 x 40 x 20 cm)
- with robust and flexible dimensions 10 x 40 x 20 cm
- 1 or 2 compact size tanks, and more...

DPS Companion 2 GC

"Portable GC"

"Lab GC"

DPS

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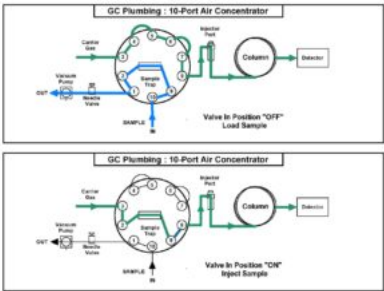
DPS Companion 4 GC

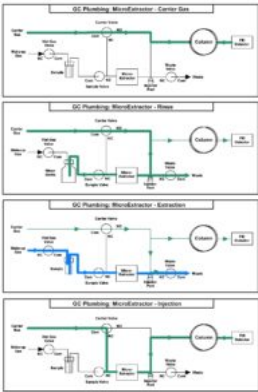
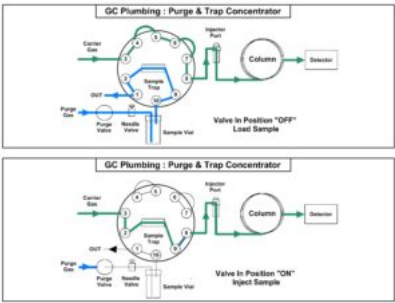
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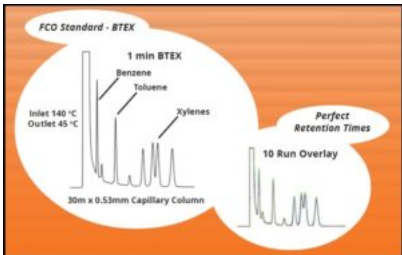
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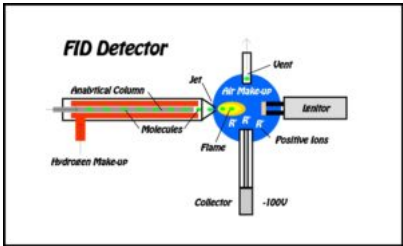
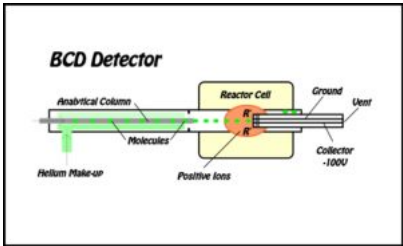
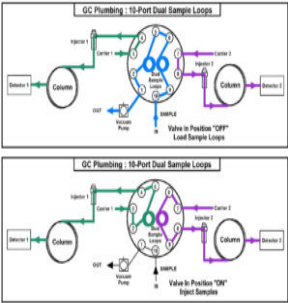
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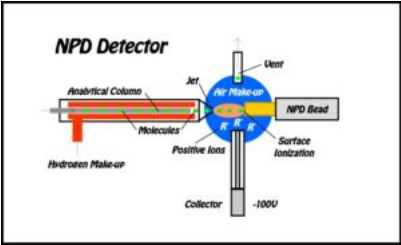
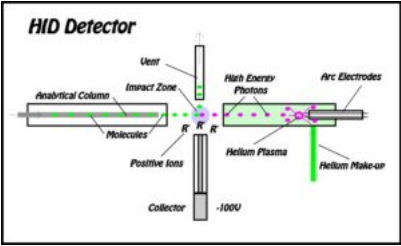
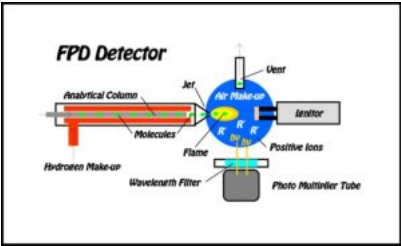
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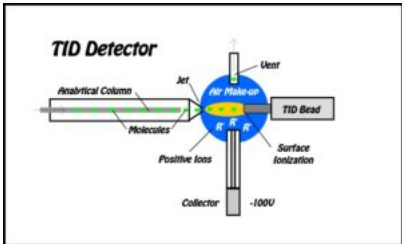
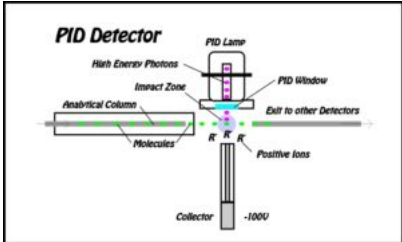














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Custom GC Systems are what we're - About !

100"S of Custom GC Systems

This fun little video tells our story. We believe we should leave our planet a better place for our children and generations to come!

We are proud to offer 4 GC models, 8 different detectors, built-in sample concentrators, incredible plumbing schemes, autosamplers, and many other accessories. Consequently, we can build 100"S of configurations of Custom GC Systems. Where each one is specifically built to meet the requirements of your GC Analysis application. In other words, we don't just build GC"S, we build application specific Custom GC Systems!

Companion 1 - Portable GC System

Custom GC - Products

- Only 1 GC Detector (Choose from: FID, NPD, PID, or TID) " 1, or 2
- Injectors (on-Column, or Custom SIS)
- Ambient to 325°C
- Temperature Program - to 80°C/min

<https://www.dps-instruments.com>

After years of development and thoughtful consideration, DPS Instruments is pleased to present the newest Portable Companion 1 GC System. The Companion 1 GC has been designed to "Go with you anywhere!" Utilizing the same modular vital and vital components found in our full size Series 600 Lab GC's, the performance of the Companion 1 GC has not been compromised because of it's small size.

The DPS Companion 1 GC Systems are a new breed of GC. They are the first portable GC where you can select 1 of 4 available detectors, allowing you to do more work in the field than ever before. From Environmental to Forensic, and Petrochemical to Quality Control laboratories, the Companion 1 GC does where ever you need it.

The intelligence of all the DPS GC Systems are located within a microprocessor, allowing our proprietary Smart Sensor Processor system control the temperature and gas flow rates to higher substances than ever before and DSP is what makes our Soft Landing™ ever so soft.

The DPS Companion GC specifications are in a class of their own. The Companion 1 GC and all DPS GC Systems are smaller, lighter, faster, more intelligent, and have detailed menus.

Applications:

- Petrochemical
- Forensic
- Environmental
- Waste Control

Lab Quality Analysis in the Field
"It Goes with you anywhere!"

General Specifications:

- Modular Design - Built-in Accessories
- Mass Standard Identification Specific Configurations
- Connect Oven and Soft Landing™
- Color Touch Screen Instrument Control
- Free Standing operation with onboard GC Methods
- Proprietary Digital Signal Processor
- Built-in Instrument Diagnostics
- Temperature Control to 0.001 °C
- FID Pressure Control to 0.001 psi
- Ambient to 325 °C Column Oven
- 60 to 80 °C per inch Column Oven Ramp
- Fast Cooling 325 °C to 50 °C in ~ 4 min
- Connect and Calibrate
- Weigh: Total Cartridge Case 132 x 48 x 21 cm
- Rechargeable 10 kg
- 1 or 2 connect gas tanks, sold separately.

DPS Instruments, Inc.

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The versatility of the GC Systems are backed up by microprocessors, which are used for the instrument control and data acquisition. The DPS Companion 2 GC Systems are a new breed of GC. They are the first GC Systems to offer you a choice of 2 portable systems, allowing you to work in the field or your laboratory. From a compact 10" x 10" footprint to a larger 20" x 20" footprint, the Companion 2 GC can be used in a variety of settings.

General Specifications:

- Microprocessor Based Instrument
- Power Standard (Standard Growth) Configuration
- Carrier Gas and Air Supply
- Color Touch Screen Instrument Control
- Four channel operation with onboard GC Method
- Parameter Based Instrument Control
- Real-time Instrument Diagnostics
- Temperature Control to 0.001 °C
- GC Pressure Control to 0.001 psi
- Analyst to 200 °C Column oven
- Up to 80 °C per Hour Column Oven Rate
- Four channels 200 °C to 300 °C or 4 °C
- 1 or 2 Detectors
- Control Gas Supply
- Water-Tight Carrier Gas (100 x 40 x 20 cm)
- with robust and flexible dimensions 10 x 10 cm
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DPS Companion 2 GC

"Portable GC"

"Lab GC"

DPS

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General Specifications:

- Advanced Portable Micro GC Gas Chromatograph
- Designed for the highest performance operation
- Four channels in two modules
- 1 to 4 GC Columns (Micro-TCD Channels)
- Integrated 3 channel detector
- Automatic Calibration
- Four & Accurate with Low Maintenance
- Real-time Instrument Diagnostics
- Easy Chromatographic Data System
- Temperature Control to 0.001 °C
- Pressure Control to 0.001 psi
- GC Control and Calibration
- Water-Tight Carrier Gas (100 x 40 x 20 cm)
- Dimensions 10 x 10 cm

DPS Companion 4 GC

"Portable Micro GC"

"Lab GC"

DPS

Series 600 - Lab GC System



- 1 to 4 GC Detectors (Choose from: BCD, FID, FPD, HID, NPD, PID, or TID)
- 1, or 2 Injectors (on-Column & S/S)
- Ambient to 450°C
- Temperature Program - to 100°C/min
- EPC Pressure Control for all Gases
- Use all Capillary, Packed, or Micro-Packed Columns
- Add Air, Purge & Trap, or Headspace Concentrator!
- Almost all Custom GC Systems & Applications
- Small, Fast, Reliable and Lightweight!

[More Series 600 GC info!](#)

Micro-TCD GC - Continuous Monitoring



- 1 to 4 GC Column Oven/Micro-TCD Channels
- 2 Micro-machined Thermal Conductivity Detectors (TCD) per Channel
- Designed for Unattended Continuous Operation
- Most analyses in less than 1 min
- Integrated 3-Stream Selector
- Automated Calibrations
- Free standing operation with on-board GC Methods
- Easy Chromatography Data System
- Small, Fast, Reliable and Lightweight!

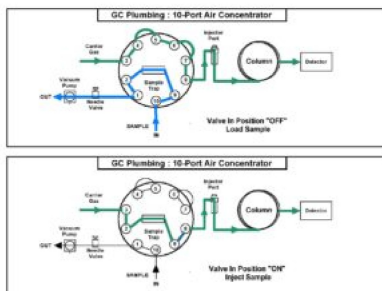
[More Micro-TCD GC info!](#)

Custom GC Built-in - **Accessories**

AIR Concentrator



Companion 1 Air Concentrator



Click for Large

Air Concentrator – The Custom GC Air Concentrators for both the Companion Portable GC and Series 600 GCs are built right in. Most importantly, this provides both a compact portable sample concentrator and a shortest possible sample path. Above all, a heated valve and heated sample lines create an inert sample path. The sample trap is plumbed in a true backflush fashion. It also can be equipped with a variety of packing materials to achieve the best concentration of the compounds being analyzed. To start, a built-in vacuum pump loads the sample and a variable flow controller ensures consistent sample trapping and GC analysis. From start to finish, the entire sequence of the Air Sample Concentrator is automated through the Timeline of the DPS Control Software for the GC analysis of one sample. If needed the system can also be set up to run unattended 24/7, collecting and analyzing samples every hour, or so.

Headspace Concentrator



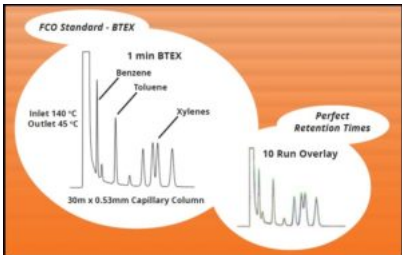
Companion 2 Headspace Concentrator



Series 600 Lab GC with Headspace Concentrator

Headspace Concentrator – The Custom GC Headspace Concentrator for both the Companion Portable GC and Series 600 GCs are built right in to provide the shortest possible sample path. Each Sample Vial is heated and then consistently Pressurized before loading the Sample Loop. A fixed Sample Loop ensures reproducible sampling and consistent GC analysis. In addition, the sample lines are Flushed between analyses to limit any cross-over contamination. Above all, the entire sequence of the Headspace Concentrator is automated through the Timeline sequence of the DPS GC Control Software for the GC analysis of one sample at a time.

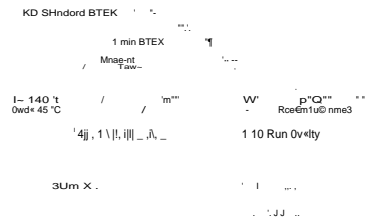
Dynamic Headspace Concentrator – For even lower Detection Limits the analytes are concentrated further on an adsorbent Trap. With this method ppb levels are easily achieved. Either way, the Headspace Concentrators for DPS can solve your sample concentration requirements.



Custom GCs Lab & Portable GC Systems from DPS Systems Europe

heated and the compounds are directed to the analytical column for GC analysis. In conclusion, the entire sequence of the MicroExtractor Concentrator is automated through the Timeline of the DPS Control Software.

FCO Upgrade for Fast GC



The Fluidless Column Oven (FCO) is a revolutionary low mass accessory. The column is sealed inside an insulated oven, but comes in direct contact with the heater elements. Therefore, this contact allows the gradient to be transferred directly to the column. The low mass of the oven and direct heating make very fast temperature ramping possible in both the Extended Run and Classic models. In addition an integrated chiller cools the column between runs and is powerful enough to permit sub-ambient GC analysis starting as low as 20°C.

Check out the Installation Video

Visit GC Ovens for more about Fast GC



Innovative Plumbing Schemes



Headspace Vial Cleaner Accessory



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ECHnology Pty Ltd

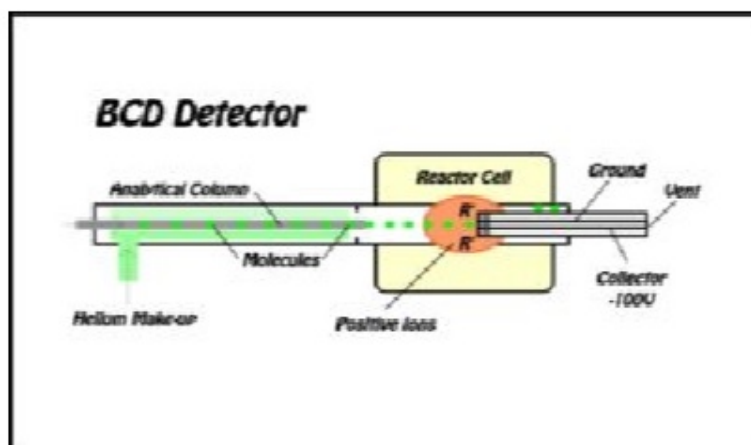
Website NEW : www.chromalytic.net.au E-mail : info@chromtech.net.au Tel: 03 9762 2034 ... in AUSTRALIA

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Importers & Manufacturers
www.chromtech.net.au

Example: Dual Sample Loop

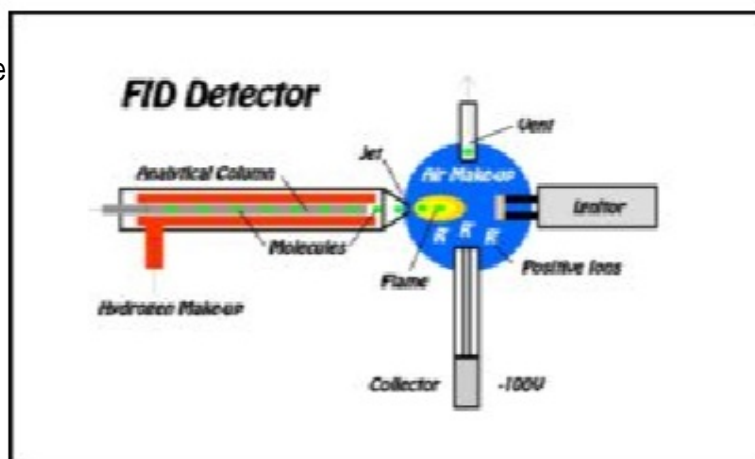
Custom GC - Detectors

BCD
Bromide Chloride Detector



FID

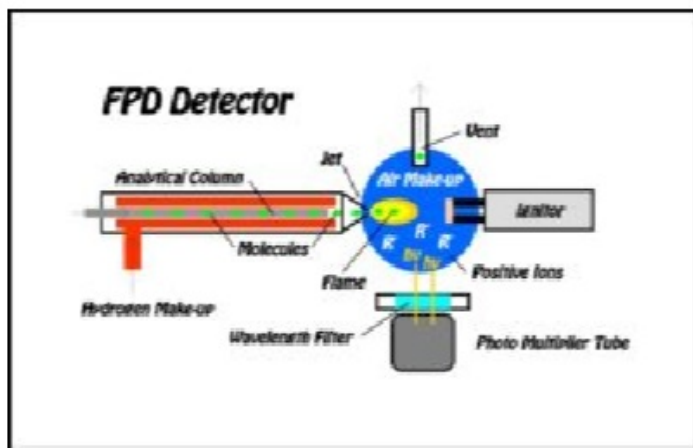
FPD



FPD Overview - The FPD detector

can be configured for 2 modes of operation. Firstly, a highly selective configuration for Sulfur compounds. Or secondly, a mode that is highly selective for Phosphorus compounds. To start, a precisely controlled Hydrogen and Air mixture is ignited and burns as a small flame at the end of a jet within the Detector Body. Therefore, all compounds exiting the column pass through the flame and those that are combustible ionize. After that, all excited Sulfur, or Phosphorus ions return to their ground state and emit photons. The specific wavelength filters within the detector body only let certain photons pass through to a Photo Multiplier Tube (PMT), where they are detected and amplified. The FPD produces a lot of water, which is a problem for most Portable GC'S, however the unique

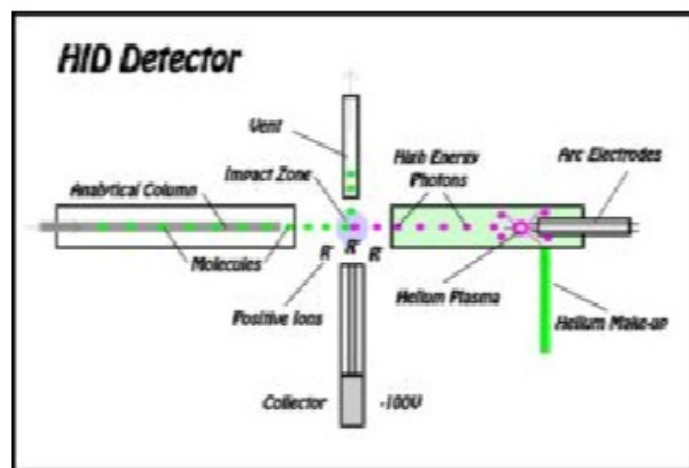
FPD Flame Photometric Detector



HID Overview - The HID detector

is a universal broad range detector, so it is highly sensitive to almost all compounds. At first, in a pure helium environment, a current flows between two electrodes creating a plasma of high energy short wavelength photons. Consequently, as the compounds exit the column they are bombarded by these photons and ionized. Take note, that the energy of these photons are 24 eV, which is sufficient to ionize almost all compounds. After that, the negatively charged Collector Electrode attracts the resultant positively charged ions. The HID can be run in series with other detectors, such as a FID, PID, or BCD. The unique design of the DPS HID detector is ideal for both Series 600 Lab and Portable Custom GC Systems.

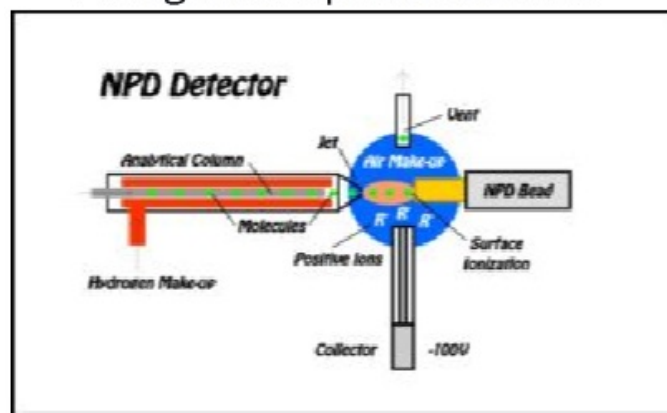
HID Helium Ionization Detector



NPD Overview - The NPD detector

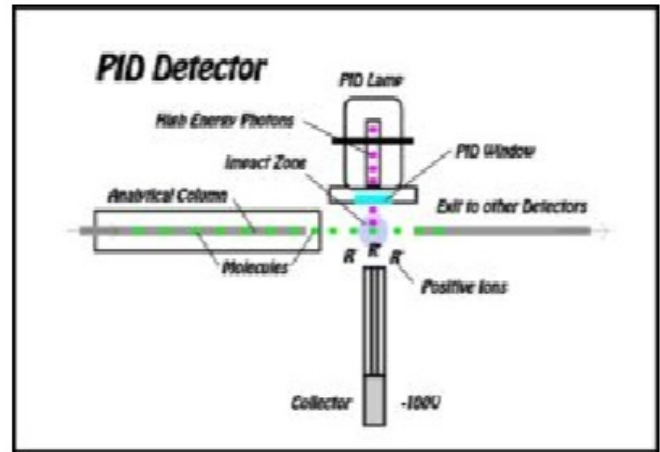
is highly selective, but only for Nitrogen and Phosphorus containing compounds. At first, a precisely controlled Hydrogen and Air mixture surrounds the NPD bead within the detector body. Secondly, a voltage is applied to the bead to activate the surface. Finally, Nitrogen or Phosphorus compounds react with the activated surface as they exit the column creating ions. Consequently, the negatively charged Collector Electrode attracts the resultant positively charged ions.

NPD Nitrogen Phosphorus Detector



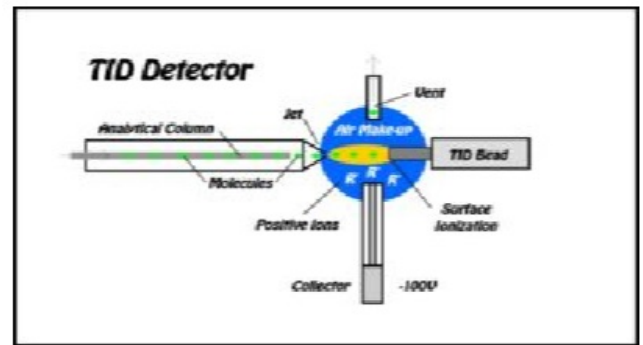
PID Photo Ionization Detector

PID Overview - The PID detector is highly sensitive to hydrocarbons, but only those that are aromatic, or have double or triple bonds. To begin, the PID lamp emits 2 major wavelengths of high energy Ultraviolet light that travel through the window of the lamp. After that, the compounds exiting the column are bombarded by these UV photons and ionized. Finally, the positively charged ions are attracted to the negatively charged Collector Electrode and amplified. The energy of these photons averages 10.6 eV, and this is sufficient to ionize aromatic compounds, but not aliphatic compounds. Since the PID is non-destructive, the PID detector is commonly used in series with other detectors. For instance, in DPS Custom GC Systems the PID is used in series with both the BCD and FID detectors.



TID Overview - the TID detector is highly selective to Amines and Nitroaromatic compounds commonly found in explosives. At first, a precisely controlled Nitrogen, or Air mixture surrounds the TID bead within the detector body. Secondly, a Voltage is applied to the bead to activate the surface. After that, Amines and Nitroaromatic compounds react with the activated surface as they exit the column creating ions. Therefore, the negatively charged Collector Electrode attracts the resultant positively charged ions.

TID Thermo Ionic Detector



Custom GC - Customers

Six Continents and Counting!

Due to the current data protection regulations we are reluctant to present a list of customers, or even display their logos. We think that this is sad, but you probably already have a good idea of who they are by the products and services they provide. Although, we have smiling customers on 6 continents, Antarctica is still open, so we are hoping for a happy customer there too!

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Custom GC'S for Method Specific -Applications

Consumer Products
Food, Packaging & Personal Care

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Environmental
Air, Water & Soil

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Custom GCs Lab & Portable GC Systems from DPS Systems Europe

Forensics

Arson, Blood & Drugs

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Custom GC Forensics

PetroChemical

Permanent Gas, Fuel & Safety

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Custom GC Petrochemical

Pharmaceuticals

Medicine & Cannabis

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Click an Image for the Application

Custom GC Pharmaceutical

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Custom GCs Lab & Portble GC Systems from DPS Systems Euripe

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Custom GC Quality

For more Custom GC Information - Contact Us

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