

TOXIC GASES
REFINERY ANALYSIS
FUEL CELL
TOGA
ASU

MULTIDETEK 2

A micro GC with huge capabilities



HALOGENATED GASES ANALYSIS
UHP CO₂
NATURAL GAS
SEMICONDUCTOR GASES
COAL CHEMICALS PLANT
BEVERAGE
STEAM REFORMING

The newest MultiDetek micro GC series, the MultiDetek 2 (MD2) offer, more capabilities than ever. With its unique design that is suitable for the industrial and laboratories world, a wide range of application can be achieved.



ENVIRONMENT



HYDROCARBONS PROCESSING



INDUSTRIAL GAS



FOOD AND BEVERAGE



PETROCHEMICAL



PHARMACEUTICAL AND MEDICINE



AGRICULTURE



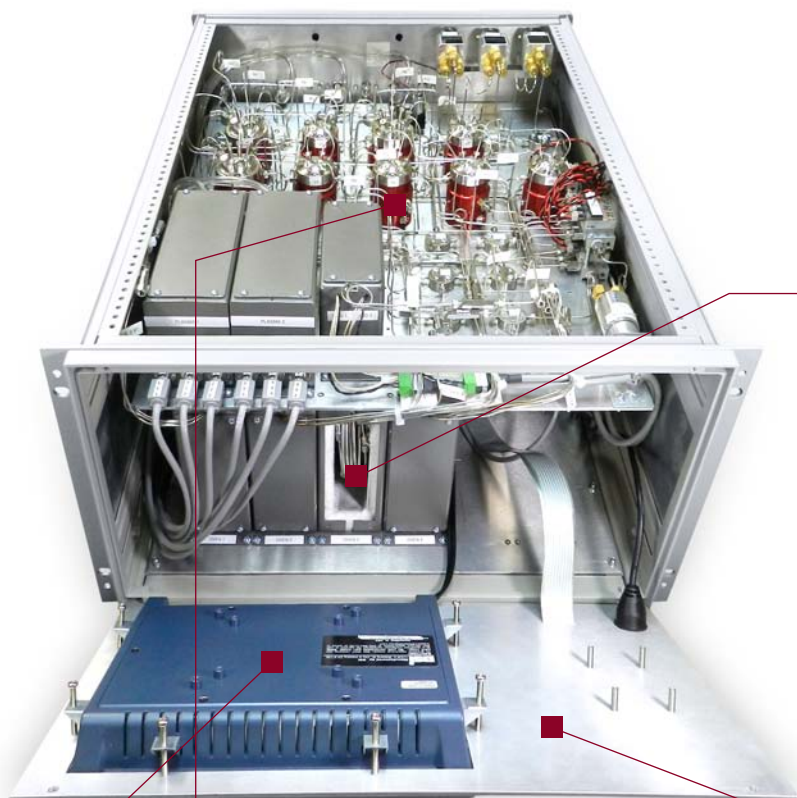
HEALTH AND SAFETY

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MULTIDETEK 2

A micro GC with huge capabilities



■ ISOTHERMAL AND PROGRAMMABLE OVEN FOR ANY TYPE OF COLUMNS

The oven design can accept any type of packed, micro packed and capillary columns. It offers a very stable and quick temperature control able to proceed to high temperature column regeneration in the unit. The front access to the ovens can be done without removing unit from its rack. With its optional ramping and programmed oven, some more applications are feasible with reduced analysis time.

■ HIGH PERFORMANCE VALVE

The combination of the PlasmaDetek and the high performance GC valve bring outstanding measurement performance. A longer lifetime and better performance on common GC techniques are achieved. They also allow new methods that are not possible with other commercial detectors and valves. Consult LDetek application notes for more information.

■ FRONT ACCESS TO THE ISOTHERMAL AND/OR PROGRAMMED RAMPING OVENS

The Multidetek-2 has been designed to give a complete access to all the hardware parts without removing the unit from the rack. The complete maintenance of the system can then be done by keeping the system on gas. This design gives the benefits to reduce the recovery time of the GC after proceeding to maintenance of the system.

■ LARGE 8.4" TOUCH SCREEN & USER FRIENDLY INTERFACE

The Multidetek-2 offers an easy and complete interface working on Windows XP embedded. With its 8.4" clear LCD touch screen, it allows the operator to navigate easily through the different menus. Moreover, the system includes an Ethernet port for remote control.



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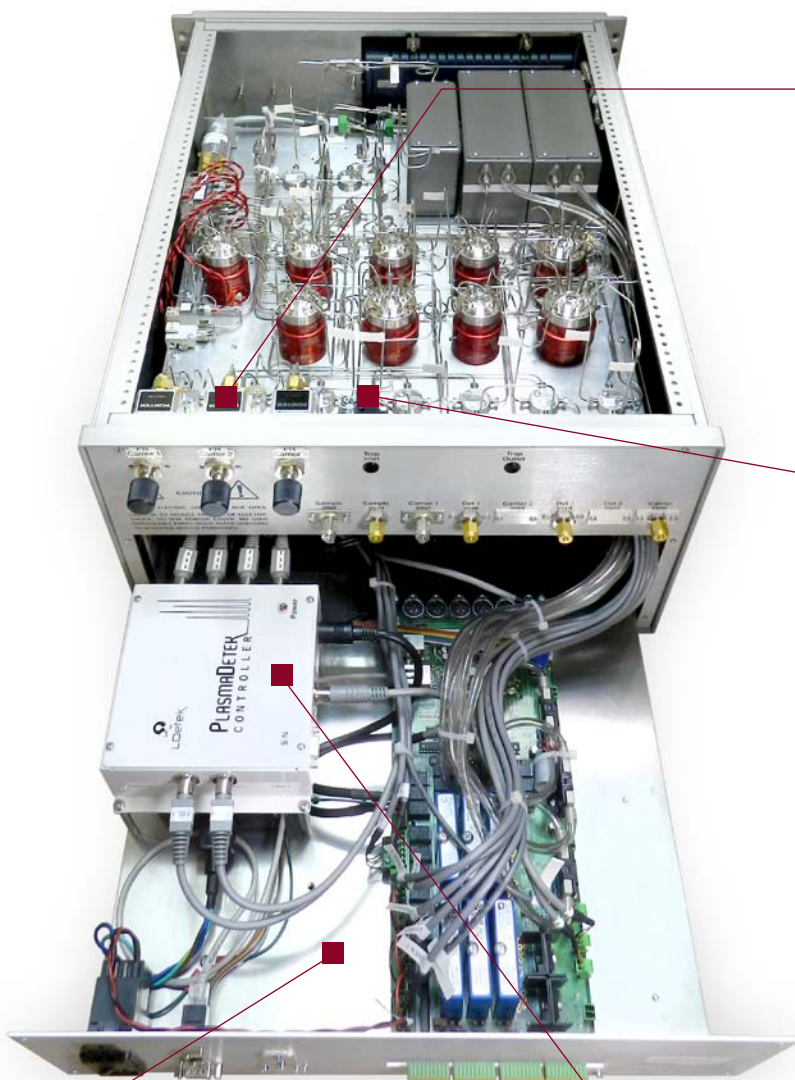
■ ELECTRONIC FLOW CONTROLLER (LDETEK DESIGN)

With its electronic flow controller, the Multidetek-2 offers the possibility to have automatic carrier flow adjustment. LDetek has developed its own valve design offering low dead volume and fast response time to allow accurate carrier flow. A manual version of the carrier flow regulator can also be used.



■ ELECTRONIC SAMPLE VALVE (LDETEK DESIGN)

Keeping its already proven LD8000 micro valve design for sample control, the Multidetek-2 guarantee no leak and no dead volume with this high performance electronic controlled online valve to achieve ppb levels.



■ EASY MAINTENANCE WITH ITS SLIDE OUT DESIGN

The same approach has been done on the back side of the unit. Other critical components can be reached from the back for maintenance purpose using its pull out rails system. Again, it gives the benefit to perform system maintenance with reduced recovery time without removing the gas lines from the unit. Also offering its optional integrated mounted in gas purifier module, the Multidetek-2 bring some more benefits by reducing installation cost and space. Its compact design, which can introduce multiple configurations with an integrated purifier and stream selector system in one chassis, pushes further the possibilities of this GC system.

■ LDETEK HIGH PERFORMANCE PLASMA DETECTOR

Using its redesigned Plasma Emission Detector, The MultiDetek-2 can now achieve lower detection limit and can also extend its range of application. Its plasma detector has the benefit to be a clean and maintenance free system. It can easily achieve low ppb detection limit using either argon or helium as carrier gas. The detector can be configured for low ppb as well as high percentage level. It then gives the opportunity to configure the Multidetek-2 system for any kind of gas analysis applications.

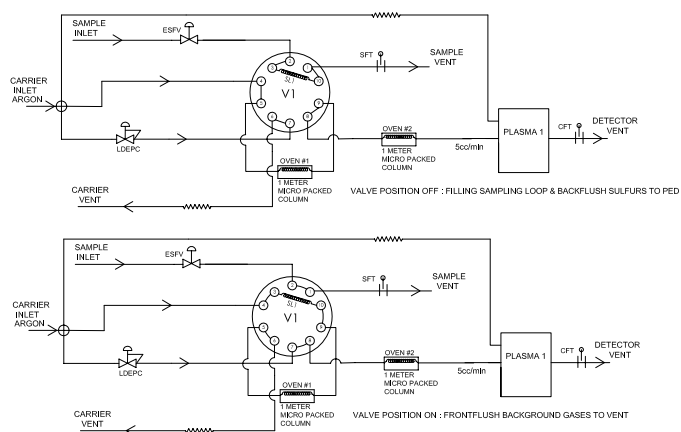


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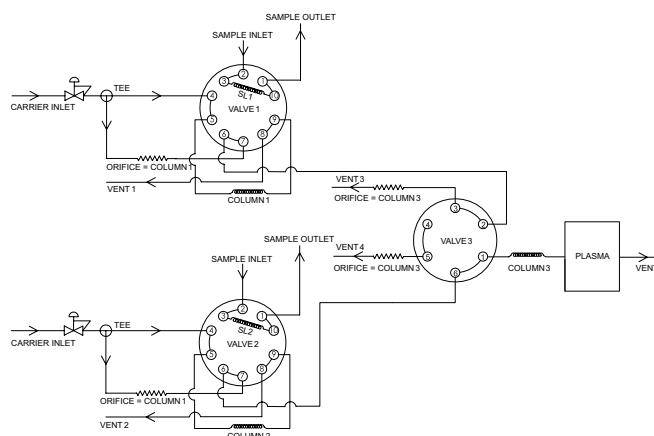
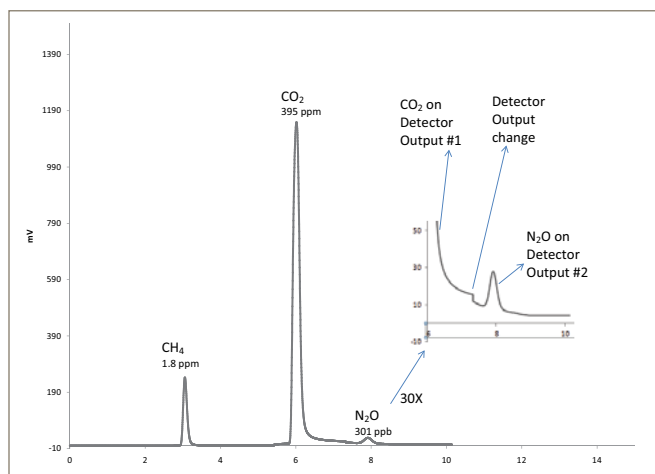
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APPLICATIONS AND DESIGNS EXAMPLE

H₂S AND COS IN SYNGAS



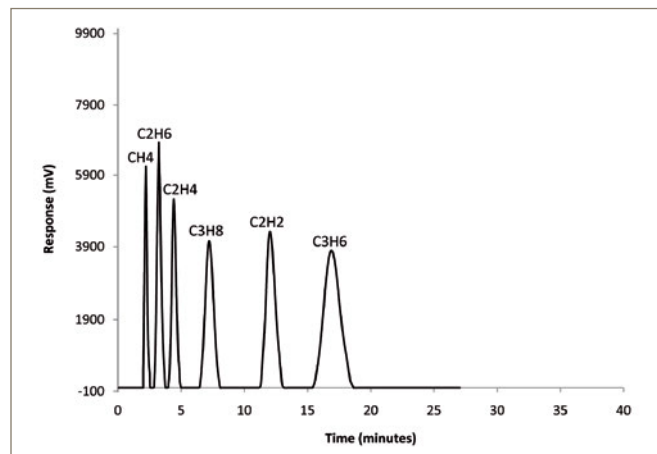
GREENHOUSE



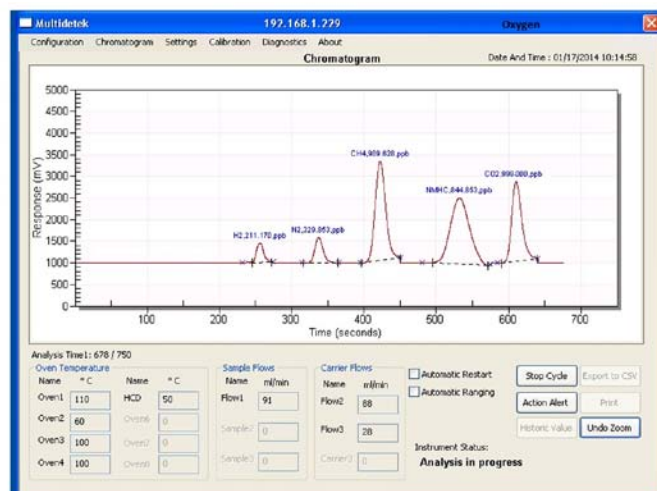
PERMANENTS AND LIGHTS HYDROCARBONS IN OXYGEN USING ARGON CARRIER GAS ONLY



MD 2 HIGH RESOLUTION CHROMATOGRAM OUTPUT



MD 2 USER INTERFACE CHROMATOGRAM



VISIT OUR WEB SITE TO CONSULTS SOME OF OUR APPLICATION NOTES

LD12-1	Greenhouse analysis with PlasmaDetek
LD12-2	Permanent and light hydrocarbon analysis with PlasmaDetek
LD12-3	Analysis of argon in pure oxygen with PlasmaDetek and Argotek
LD12-4	Analysis of nitrogen in oxygen and hydrogen bulk
LD12-5	Improving Gas Chromatograph measurements with the use of the LDP1000 gas purifier
LD12-6	Increasing argon production with the MultiDetek
LD12-7	Analysis of Neon-Hydrogen-Argon-Krypton-Nitrogen with the PlasmaDetek & the HSR-Etek column
LD12-8	Analysis of Sulfurs with the PlasmaDetek
LD12-9	Hydrocarbons measurement for Oxygen production using PlasmaDetek & Multidetek-2
LD13-1	Analysis of UHP Hydrogen production using PlasmaDetek-2 & micro GC Multidetek-2
LD13-2	Measurement of nitrogen in a mixture of Argon/Oxygen (crude argon) online with the LD8000-Crude
LD13-3	Measurement of H2S and COS in Syngas