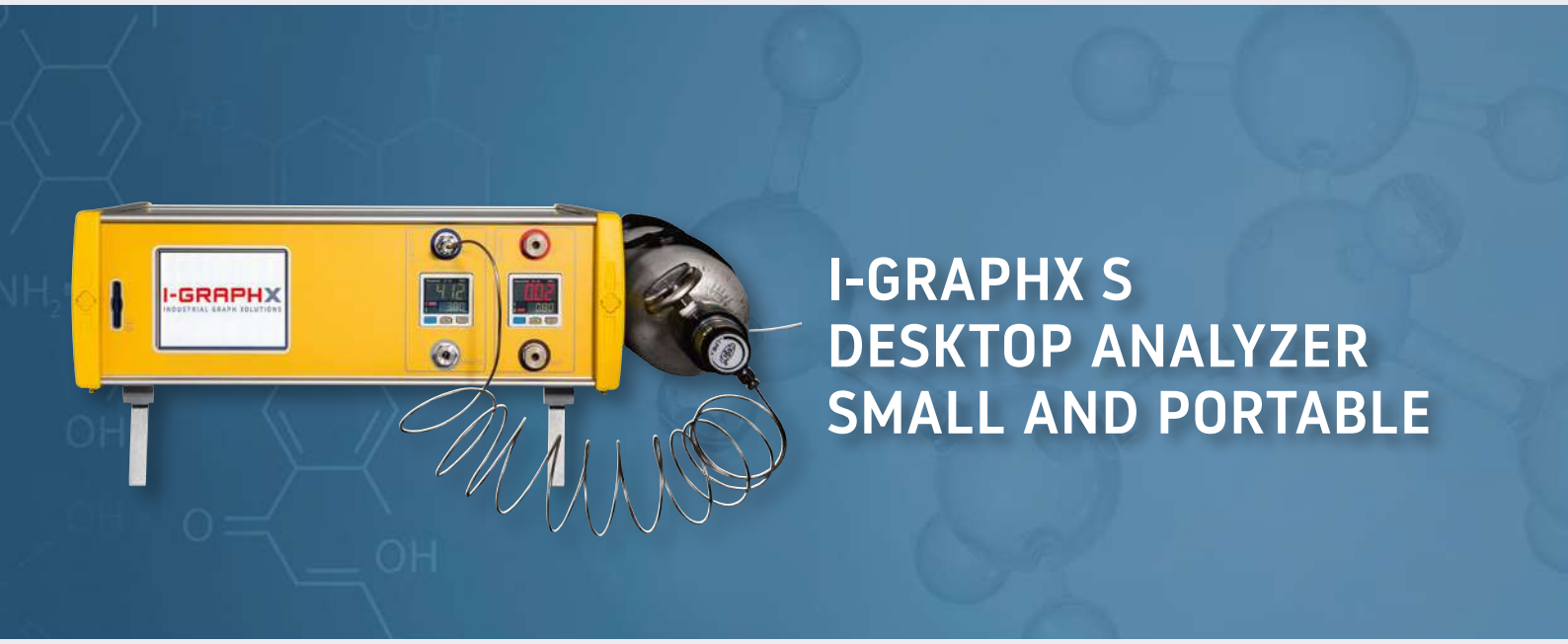
Micro gas chromatography



I-GRAPHX S
DESKTOP ANALYZER
SMALL AND PORTABLE

More Products: Gas Analyzer | H2 analyzers | Micro dosing systems | Electronic pressure control units | Accesories

Highly sensitive and selective Gas analysis in your application.

The **I-GraphX S** Analyzer is our desktop process analyzer for mobil and stationary applications.

The **I-GRAPHX S** selectively analyses gases and gases dissolved in liquids. The gas chromatography module can be built entirely from MEMS chips, which results in a very short analysis tim. Optionally, the **I-GRAPHX S** can be equipped with a dual analyser, two analysis paths and up to four columns. These two analysis paths can be connected in parallel or in series.

The **I-GRAPHX S** can be equipped with a mobile lightweight carrier gas supply upon request. Sample gas is supplied by overpressure or is sucked in by the built-in pump.

Typical applications:
- Electrolysis-, catalysis procedures
- Chemical synthesis processes
- Purity measurements
- Process monitoring
- Environmental management, landfill gases, bio gases
- Fast analyses of fuel in tank storage

Properties:
- Qualitative and quantitative high-precision gas analysis
- Monitoring of continuous processes and measuring points
- Module for analysis of gases dissolved in liquid (optional)

Technical data:
- Electronic pressure regulation
- Inlet pressure monitoring with color change at over or falling below
- Measuring range 1 ppm - 100 %*
- Accuracy: < 0.05 % of meas.*
- Carrier gas consumption 1-5 ml/min*
- Power supply: 24 VDC, 6 A
- Ambient temperature range: -5 °C to +50 °C

Connections:
- Media: VICI 1/16" fitting or self-closing
- USB (others on request)
- Control via GC Manager software
- Output 4-20 mA (optional Modbus RTU)
- Integrated status display
- DSub25 I/O connector

Unit size: *
- W x H x D: 310 x 120 x 290 mm
- Weight: approx. 4,7 kg*

Protection class:
- IP 20

*depending on configuration

We reserve the right to make changes to technical data, dimensions, weights, construction and products. The illustrations are non-binding and show any special equipment.

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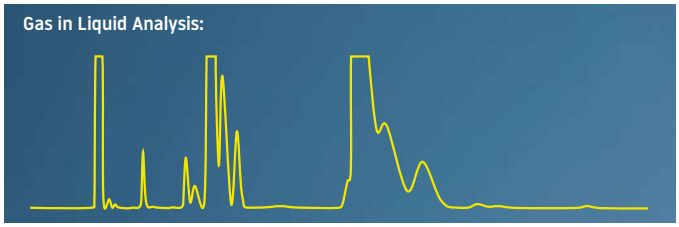
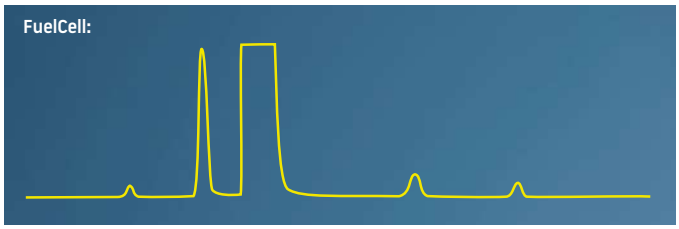
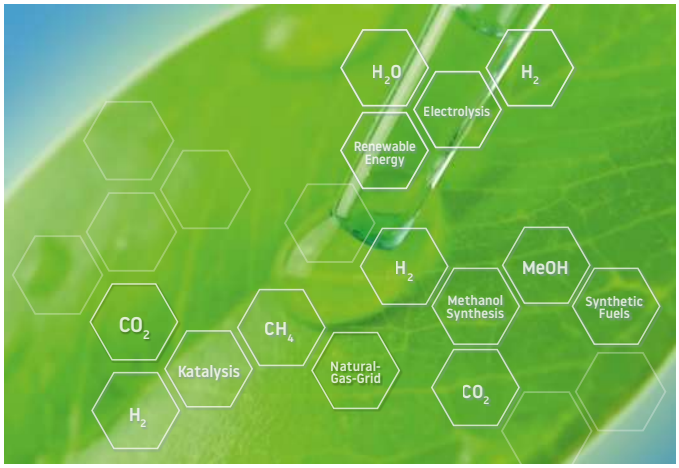
Mobile solution for the I-GRAPHX S





Applications



P2X - Power to X is currently the global term for usability of renewable energies and to minimizing the greenhouse effect.

The **I-GRAPHX S** is utilised in a variety of applications at **P2X**, including the electrolysis of renewable energy to produce hydrogen. Additionally, it is employed in the catalytic reaction of H_2 and CO_2, which is used to form methane.

The **I-GRAPHX S** is a tool that can be utilised in a number of different ways. It can be used to monitor various chemical processes, for example when producing synthetic fuels or raw materials for the chemical industry such as ammonia or methanol. The analyser has many applications, including fuel cell technology, purity measurement and quality control.

The **I-GRAPHX S** is also used to monitore waste pyrolysis and for measuring exhaust gases of different solid fuels. Another area of application is analysing the exhaust gas flows that arise during the energy production from biomass.

The **I-GRAPHX S** can be equipped with a special module that separates dissolved gases in liquids to analyse for example gases in alcoholic beverages such as beer. Another application of this technology is the rapid analysis of fuels in tank farms, as well as to check the quality of new synthetic fuels (e-fuels), which mainly consist of lower alcohols.

A selection of further applications:

- Permanent gases, Noble gases
- Natural gases, LNG, Hythane
- Hydrocarbons
- Research
- Environmental management
- Landfill gas, Biogas
- Permanent gas analysis
- VOC's / BTEX

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