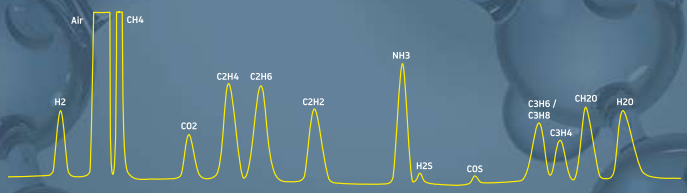
Micro gas chromatography

I-GRAPHX PR
PROCESS RACK ANALYZER



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 PR** analyzer is our process analyzer for stationary applications in the standardized, compact 19" rack, 3U format.

The **I-GRAPHX PR** selectively analyzes gases and gases dissolved in liquids. The gas chromatography module can be entirely made of analyzes chips (MEMS made), resulting in very short analysis times. Optionally, the **I-GRAPHX PR** comes with a double analyzer, two analysis paths and up to four separation columns. These two analysis paths can be connected in parallel as well as in series.

On request, the **I-GRAPHX PR** can be equipped with a double carrier gas supply, to use two different carrier gases. Inline filters protect the analyzer from accidents in the process or the supply lines. The sample gas is either pressurized or by using the built-in switchable suction pump supplied to the analyzer via a configurable bypass.

Typical applications:

- Chemical Synthesis Processes
- Electrolysis, Catalysis processes
- Solvent
- Process monitoring
- Refinery gases
- Sulfur gases

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: 1/16 Swagelok tube fitting (optional) 1/8", ¼", 3mm, 6mm, VICI1/16" ZDV PEEK fittings
- USB (others on request)
- Control via GC Manager software
- Integrated status display
- DSub25 I/O connector

Unit size: *

- W x H x D: 19" x 3U x 370 mm
- Weight: approx. 6 kg*

Protection class:

- IP20

*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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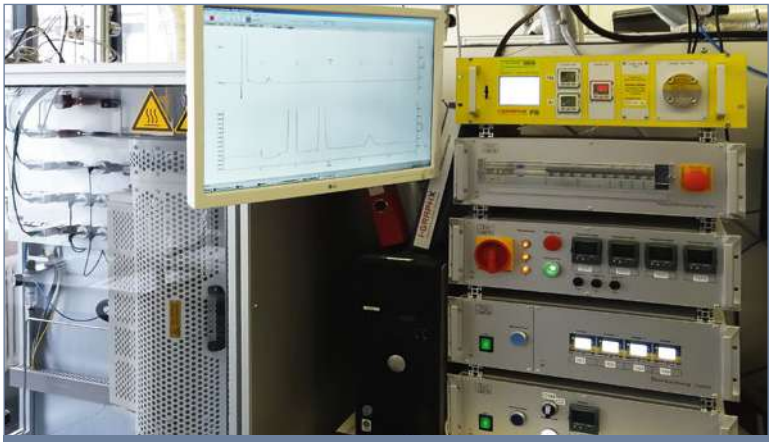
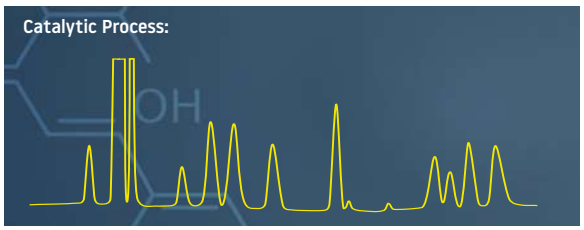
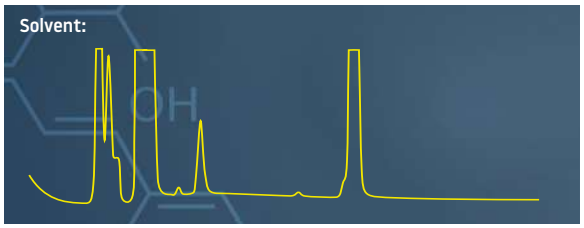
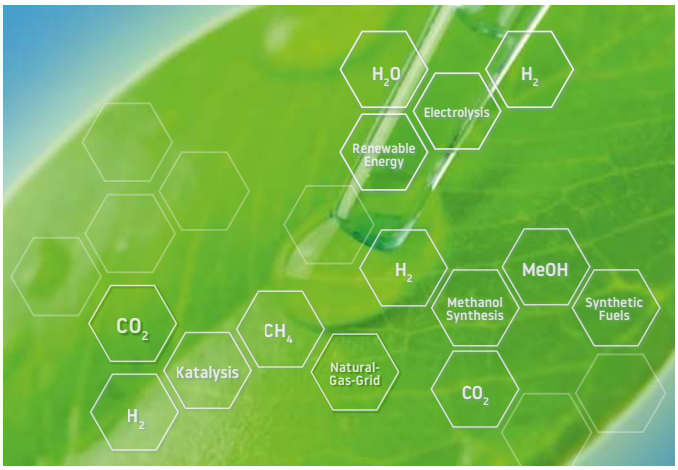


I-GRAPHX PR in a catalysis process





Applications



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

The **I-GRAPHX PR** is used in various applications at **P2X** such as in the electrolysis of renewable energy to Hydrogen. Further in Catalytic Reaction of H_2 and CO_2 used to form methane.

For other chemical synthesis methods, the **I-GRAPHX PR** monitors processes around i.e. synthetic fuels or raw materials for chemistry such as ammonia or methanol. Countless applications in sections of fuel cell Technology, purity measurement and quality control.

The **I-GRAPHX PR** is also used in pyrolysis of waste and many other solid fuels or even biomass to monitor and analyze the exhaust streams.

In the field of analysis of dissolved gases in liquids the **I-GRAPHX PR** comes with a specially developed separation module. It is thus able to analyze gases dissolve in liquid. The **I-GRAPHX PR** is often used in quick analysis of fuels in tank farms, as well as in quality control of new synthetic fuels (e-fuels) which mainly consist of lower alcohols.

A selection of further applications:

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