

Micro gas chromatography



I-GRAPHX S DESKTOP ANALYZER SMALL

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

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 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 S** 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 S** can be equipped with a mobile lightweight carrier gas supply. The sample gas is either pressurized

or by using the built-in switchable suction pump supplied to the analyzer via a configurable bypass. supply bottle. The sample gas will be feed to the unit by pressure or can be sucked with an integrated 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:

- 1/16" or 1/8" Swagelog connections
- RS232, RS485, USB and WLAN
- monitoring via webserver, and optional display
- analog output: 4 - 20 mA

Unit size: *

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

Protection class:

- IP 20

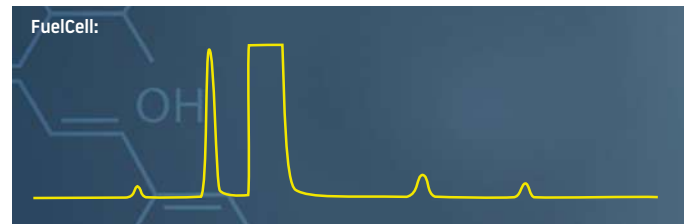
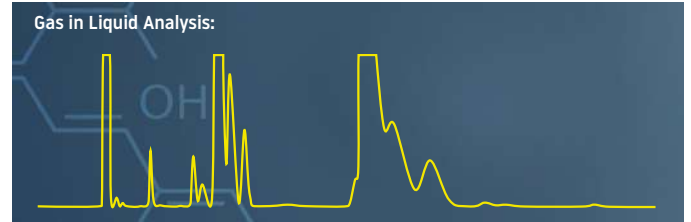
*depending on configuration



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.



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 used in various applications at P2X such as in the electrolysis of renewable energy to Hydrogen. Further in Catalytic Reaction of H₂ and CO₂ used to form methane.

For other chemical synthesis methods, the **I-GRAPHX S** 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 S** 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 S** comes with a specially developed separation module.

It is thus able to analyze gases dissolve in liquid. The **I-GRAPHX S** 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:**
- 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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