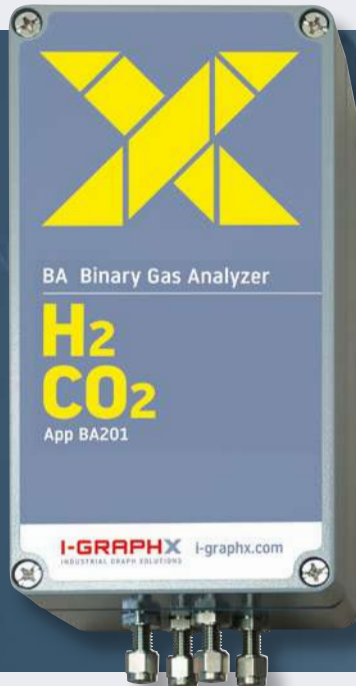


Gas Analyzer



I-GRAPHX BA BINARY GAS ANALYZER

More Products: Micro gas chromatography | H₂ analyzers | Micro dosing | Electronic pressure control units | Accessories

Measurement of hydrogen and binary gas mixtures

This device is built to detect and measure Hydrogen (H₂) in binary gas mixtures like H₂ with N₂ or CO within CH₄. The device will be used during the generation of H₂ using electrolysis, inside air separation units, during the syngas production and during the development of fuel cells. Many more applications are possible.

The dual channel thermally conductive detector is an in-house development of I-GRAPHX GmbH. The detector is built in microchip technology (MEMS) and used the specific heat conduction of the different gases.

This special design enables the unit to react very fast. While the sensor is glass passivated, it is protected against aggressive gases and can be used in harsh environment during long time.

Temperature and pressure will be compensated inside the unit and therefore calibration effort can be reduced to a minimum. The sensor is very durable has no moving parts and resist vibration and other environmental influences.

Properties:

- Accurate and long-term stable analysis
- Monitoring of continuous processes
- Very fast H₂ detection
- low operating costs, minimal maintenance

Technical data:

- 2 point or multipoint calibration
- Integrated temperature compensation
- Electronic pressure regulation
- Measurement results: Vol % resolution 1 ppm
- Power supply: 24 VDC, 0.5 A
- Ambient temperature: -5 °C to +50°C
- Accuracy: < 0.2% v.M and <0.5% v.E

Connections:

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

Unit size:

- W x H x D: 220 x 120 x 80 mm
- Weight: ca. 2.2 kg



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.