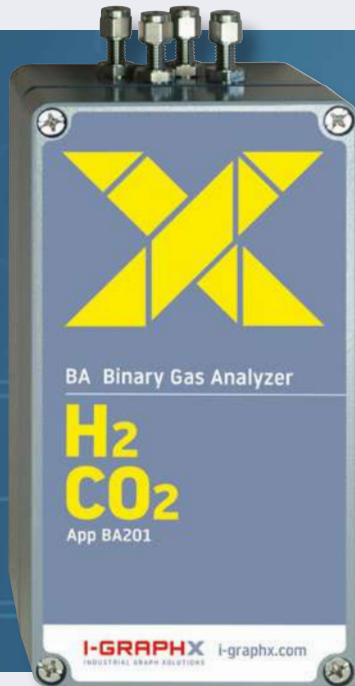


Gas Analyzer



I-GRAPHX BA BINARY GAS ANALYZER

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Measurement of hydrogen and binary gas mixtures

The device has been engineered to detect the presence of for example hydrogen (H₂) in binary gas mixtures, such as H₂ in N₂ or CO within CH₄. The analyzer can be used for the generation of H₂ with electrolysis, within air separation units, during the production of syngas and in the development of fuel cells. In addition, there are many more applications.

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

This special design makes the unit react very quickly. The sensor, which is glass passivated is protected against aggressive gases and can be used in harsh environments over extended periods.

The unit is equipped with advanced compensation mechanisms for temperature and pressure. Therefore, the device rarely needs to be calibrated. The sensor is characterised by its durability, the absence of moving parts, and its resistance to 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: -10 °C to +50°C
- Accuracy: < 0.2 % v.M and <0.5 % v.E

Connections:

- Media: tube fitting (others on request)
- Connections: USB (internal), RS485 (Modbus RTU, GC Manager)
- Monitoring: via web server through optional HMI
- Analog OUT: 4-20 mA (1 channel)

Unit size:

- W x H x D: 220 x 120 x 90 mm
- Weight: ca. 2.5 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.

