I-GRAPHX
INDUSTRIAL GRAPH XOLUTIONS

Micro gas chromatography

I-GRAPHX CGC COMPACT - GC

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

Fast chromatography – measures with high precision and selectively in a few seconds.

The **CGC Compact GC** measures in simple applications up to 10 gas components qualitatively and quantitatively quickly, safely and high precision.

Our smallest gas chromatograph is extremely compact and can be configured for a large number of applications. The **CGC** is universal for all applications in plant construction and self-sufficient systems where fast and precise gas analysis is required. Its chromatographic separation ensures that there is no irritation of the measurement signal by cross- sensitivity interference components.

The Micro Dual Channel Thermal Conductivity Detector used in the **CGC** is an in-house development of I-GRAPHX GmbH. Crafted in Microchip Technology (MEMS) it uses the unique specific physical heat conduction of each gas component. A combination of MEMS Chip separation columns and/or classic capillary separation columns enable quick and efficient analysis on a Single-Channel separation column system with the smallest media consumption.

Typical applications:

CGC401 – Hythan
CGC402 – LNG
CGC403 – Biogas
CGC404 – Syngas
CGC405 – Landfill
CGC406 – Fuelgas

Properties:

- Fast Selective Chromatography
- Qualitative and quantitative high-precision gas analysis
- Monitoring of continuous processes
- Low operating costs due to minimal maintenance effort

Technical data:

- 2 point or multi-point calibration
- Electronic pressure regulation
- Measuring range 10ppm - 100%
- Display Vol. %, resolution up to 1 ppm (web server application)
- Accuracy: < 0.1% of meas.
- Power supply: 24 VDC, 3 A
- Ambient temperature range: -5° C to + 50° C

Connections:

- Media: 1/16" or 1/8" Swagelok tube fitting (others on request)
- RS232 (others on request)
- Monitoring: via web server, optional display
- Analog OUT: 4-20mA (optional)

Unit size:

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

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