

DET QMS

Mass spectrometer for continuous monitoring of gaseous compounds



For GC / MS or MS measurements

Applications:

Surveillance
Real-time analysis monitoring

Chromatotec® is specialised in VOC, Sulfur and permanent gases analysis at trace and ultra trace levels (ppm, ppb, ppt). Please visit our website for more details.

Updated: March 2017

Benzene

Argon

Acetone

CO2

Toluene

DET QMS



Mass spectrometer for continuous monitoring of gaseous compounds

Chromatotec® proposes the DET QMS: a universal mass spectrometer system for fast, precise and sensitive online gas analysis with uptimes close to hundred percent.

The DET QMS is a powerful tool for reliable process monitoring and process control. Routine analysis is performed with a controlled sample flow and extremely good and long-term stability. This instrument is well suited for various different industrial processes.

Advantages of the system :

- Can be adapted to a gas chromatography systems
- Flexible analysis system for a broad range of applications
- Full automatic operation
- Outstanding analytical performance
- Measurement of main components and trace components in gas mixtures in one step
- Measurements of chemical reactive and corrosive gas components possible
- Customized hardware and software configurations
- Excellent long term stability and reproducibility of the analytical results
- High availability
- Low cost of ownership

Options:

- On-line results are transmitted via a MODBUS / JBUS or MGS1 communication protocol
- Analog output 4-20 mA or 0-10 V

Product technical specifications:

Analyzer:

- 1-300 amu
- 6x100 mm rod-system

Analyzer:

- Faraday cup (high concentrations - %)
- Channeltron (low concentrations – down to ppm)

Nombre of channels:

- 64 channels (mass numbers) in one analysis cycle

Detector dynamic range:

- 7 decades dynamic range 0,1 ppm – 100 %

Measuring speed / cycle times:

- 10 ms – 60 s (in standard)

Response time of the gas inlet system:

- 300 ms – 2 s (depending on the gas inlet system)

Reproducibility (main components):

- < 1.10⁻³ (0,1 %)

Number of sampling point:

- From 1 to 10 in standard (can be heated).

Operational Conditions:

- Temperature: +10 - +40°C (Storage: -10 - +60°C)
- Humidity: <75% non-condensing
- Particles :< 2µm

Libraries:

- Chromatotec library (for GC coupling)
- NIST library in option

Results:

- Data Storage (timestamp)
- 4-20mA current output (option)
- MODBUS / JBUS or MGS1 communication protocol (option)

Power supply:

- Main (230V / 115V 50 Hz/60Hz)

Dimensions and weight:

- Rack: 19" (10 U)
- Height: 444 mm
- Width: 482 mm
- Depth: 600 mm
- Net weight: 35 kg



To order:

DET QMS

Model:

D30000

Chromatotec® is continuously improving its products, therefore these specifications are subject to change without notice

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