Olfactory Detection Port

ODP 3

Specifications

ODP 3

Uses

The GERSTEL Olfactory Detection Port ODP 3 is a GC accessory that is used for olfactory detection and determination of odor-active compounds parallel to GC analysis.

System Configuration

- compatible with most standard GCs
- for parallel operation with most standard detectors, including MSD
- for parallel operation with the GERSTEL Cryo Trap System CTS 1 or the GERSTEL Preparative Fraction Collector PFC

Humidifier

- humidified gas is added to the column effluent inside a heated mixing chamber to avoid condensation and provide best possible mixing
- the supply of humidified make-up gas can be switched on or off by the user during the run as needed

Transfer Line

- transfer temperature max. 350 °C
- length 60 cm
- flexible, bending radius min. 20 cm

Mixing Chamber Temperature

- max. 250 °C

Temperature Control

- controlled from GC (GC 6890, GC 7890)

  or

- using a Controller C200 in stand-alone operation

  or

- using a Controller C200 in conjunction with GERSTEL MAESTRO software

Power Consumption

- transfer heater max. 66 Watt
- mixing chamber heater max. 40 Watt

Operating Conditions

- 15 … 35 °C
- relative humidity max. 50-60%, non-condensing
- max. 4615 m above sea level

Storage Conditions

- -20 … 50 °C
- relative humidity max. 50-60%, non-condensing
- max. 4615 m above sea level

ODP Pneumatics Box

Gas Supply

- make up gas 4 bar
- humidifier gas 4 bar

Custom solutions for special performance requirements available upon request.

Gas Flow

- adjustable via needle valves
- make up gas default settings
  65 … 70 mL/min (He)
  48 … 53 mL/min (N_2)
- humidifier gas default settings
  10 … 15 mL/min (He)
  7 … 12 mL/min (N_2)

Dimensions (H × W × D)

- 86 × 160 × 168 mm

Weight

- 1.05 kg

Controller C200

Operating Voltage

- 100 … 230 VAC, 50 … 60 Hz

Power Consumption

- 180 watt max.

Operating Conditions

- 5 … 40 °C
- Relative humidity max. 50-60 %, non-condensing
- Max. 2000 m above sea level

Storage Conditions

- -40 … 50 °C
- Relative humidity max. 90 %, non-condensing

Dimensions (H × W × D)

- 5.5 cm × 17 cm × 27 cm (Controller)
- 4.5 cm × 8 cm × 20 cm (Power supply unit)

Weight

- 1.35 kg (Controller)
- 0.75 kg (Power supply unit)

ODP Recorder Software

Uses

Software used for voice recording and voice recognition. Comments can be added to the chromatogram during the GC run and peaks are automatically annotated with the recorded comments.

System Requirements

- PC with Microsoft Vista® operatiion system (English, German, Japanese)
- Sound board with microphone entry
- 1 free serial interface
- 2 free USB interfaces
- Agilent® MSD ChemStation software E02.00.493 or Agilent® GC ChemStation software B.04 (optional)

Auxiliary Modules

- OID
  The Olfactory Intensity Device (OID) enables the olfactory analyst to record a value representing the odor intensity that is experienced when an odor active compound elutes from the GC column during a run. The intensity is recorded and subsequently added to the chromatogram as an „Olfactogram“. Whenever an odor is registered, the analyst generates a signal.

  Two OID versions are available: a continuously variable joystick that can provide an infinite number of intensities or an intensity pad that enables the analyst to enter a signal on a scale from one to four. The registered intensity is reflected in the size of the “Peak” in the olfactogram. The signal intensity is adjustable.

Other ODP Models

- ODP 2
  Olfactory Detection Port without heated mixing chamber

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