


GERSTEL


Olfactory Detector Port

ODP 3

Specifications

ODP 3

Uses

The GERSTEL Olfactory Detector 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 an AUX Controller 163

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

Gas flow

- adjustable via needle valves
- make up gas default settings
65 ... 70 mL/min (He)
48 ... 53 mL/min (N₂)
- humidifier gas default settings
10 ... 15 mL/min (He)
7 ... 12 mL/min (N₂)



Olfactory Detector Port ODP 3

Dimensions (W × H × T)

- 160 × 86 × 168 mm

Weight

- 1.05 kg

AUX Controller 163

Operating voltage

- 230 VAC, 50/60 Hz
- or
- 100-115 VAC, 50/60 Hz

Power consumption

- max. 100 Watt

Fuse

- T 0.8 A, 230 V
- or
- T 1.6 A, 100-115 V

Dimensions (W × H × T)

- 196 × 108 × 193 mm

Weight

- 4.85 kg

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 Windows® 2000 or Windows® XP operating system
- Agilent® Technologies GC ChemStation Rev. A.08.0x or A.09.0x or A.10.0x or B.01.0x
- or
- Agilent® Technologies MSD ChemStation G1701DA version (D.00.00.38, D.00.01.27, D.01.0x, D.02.00, D.03.00)
- Voice recognition software Dragon NaturallySpeaking Preferred, version 7 and higher
- 2 free USB ports
- sound card
- 512 MB RAM

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 joy-stick 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.

Other ODP models

- ODP 2
Olfactory Detector Port without heated mixing chamber