

# BRECHBÜHLER

SCIENTIFIC ANALYTICAL SOLUTIONS

## SNIFFER SERIES 9100

GC-0 and GCMS-0: Method for food, flavour and fragrances.  
GC-0 combines human perception and scientific response.



### KEY FACTS

Sniffing Port  
can be connected to any GC  
also available as complete system  
Zero Cold Spot Design  
upgradable to Prep9100

### COMFORT & TRAINING

includes Humid Air for better sniffing comfort  
comfortable working position  
away from any source of heat  
Test and training kit (column, compound mix, instruction)  
various options for setting tablet and touch areas  
Nose to text (NTT) option transcribes comments

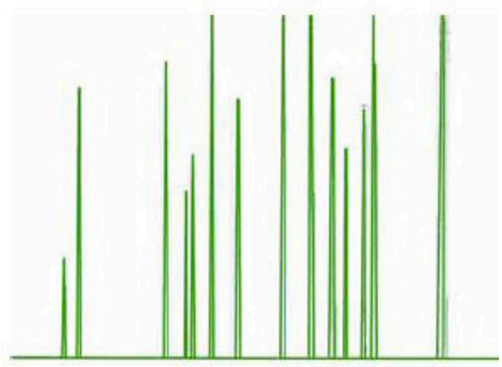
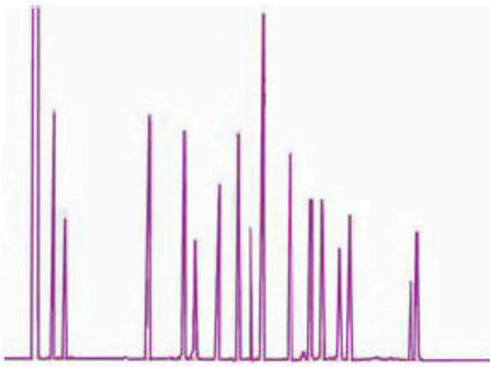
## SNIFFER 9100

GC-0 exhibits powerful capabilities that can be applied to flavors and perfumes, as well as to any odoriferous products (e.g. pollutants).

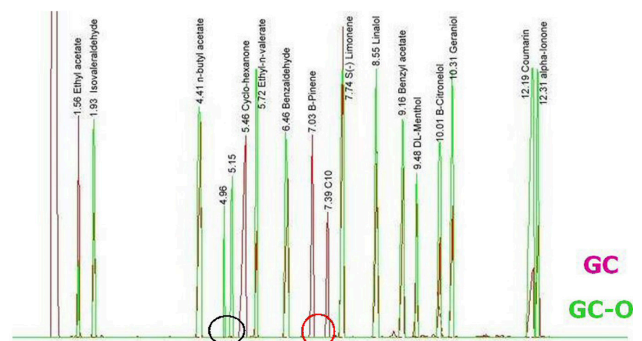
By installing at the end of a chromatographic column a split, the sample is splitted between the FID Detector and the nose. The peak/odor impression correlation will then be performed by specialized fragrance chemists.

The mechanical interface is manufactured from a single piece of stainless steel tubing heated by direct current. The tube is profiled to give a uniform temperature profile. The chemical compound are transported to the nose using a deactivated fused silica. Humid air is added around the transfer fused silica to add comfort to the panelist and prevent nasal dryness.

# FID AND ODOROGRAM



The Chromatograms show the FID trace (top left), the Odor intensity (Odorogram, top right) and the overlay of the two traces (right). The human nose can be more sensitive to certain compounds than the FID. Some compounds are detected only on the „odorogram“. Compounds with low or no odor are detected only on the FID as shown on the overlay on the right.



## SPECIFICATIONS

Interface of 80cm or 140cm, up to 3 Sniffer 9100 Systems on one GC (optional)  
 Small electronic footprint W125mm H200mm D300mm

- LAN communication via TCP/IP
- Temperature control:  
 50°C to 325°C per step of 1°C, maximum recommended temperature 280°C
- Odor intensity marker
- Signal output range selectable by software  
 0 to 1 Volts  
 0 to 5 Volts  
 0 to 10 Volts

I/O Signals for synchronization

Start in to start the sniffer program

Stop in to stop the sniffer program

Ready out signal available to indicate the sniffer ready status

Inhibit ready in signal available to prevent sniffer from going to ready stats

# TABLET OPTIONS

- 1 programmable temperature program with
- Initial temperature from 50°C to 325°C by step of 1°C
- Initial time in minutes from 1 to 599 minutes by step of 1 minute
- Temperature Ramp: from 5°C/min to 50°C/min by step of 1°C/min
- Final temperature from initial temp +1°C to 325°C by step of 1°C
- Final time in minutes from 1 to 599 minutes by step of 1 minute

## TOUCH AREAS

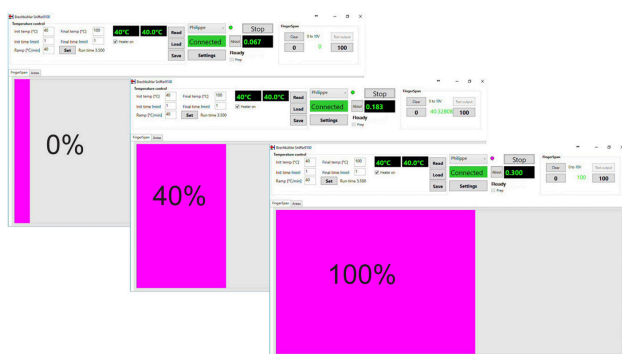
- Text displayed, fonts and color of the area
- Value of the area touched (% of full scale)
- Zero offset programmable (% of full scale)

## FINGERSPAN

- Digital fingerspan with touch screen
- Programmable for each of the users created
- Set 0 and 100 % according to the finger span
- Signal generated according to output range set

### Digital Fingerspan Screen

- At 0%, 40% and 100%

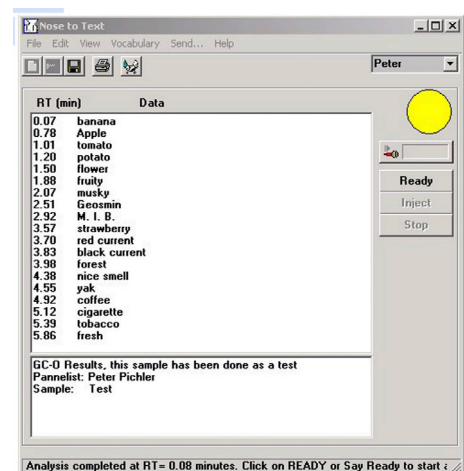


### Touch areas programmable by software



## NOSE TO TEXT OPTION

Based on the leading voice recognition software DNS, Nose to Text (NTT) listen to the panelist. When the panelist describe his perception of the odor, NTT transcribes the comments with the retention time. At the end of the analysis, the retention index can be calculated. The comments can be merged with the GC report from Thermo Scientific data system or other leading brands of data system. Graphical display of the merged comments is also possible. Nose to text comes with a customizable odor library



If you have any questions, please don't hesitate to contact us!

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www.brechbuehler.ch

info@brechbuehler.ch

+41 44 732 31 31